STARTING $ALARIE$

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1985 SURVEY REPORT

STARTING SALARIES AND EMPLOYMENT STATUS OF CHEMISTRY AND CHEMICAL ENGINEERING GRADUATES

This report was prepared by
ACS Statistical Services

American Chemical Society
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CONTENTS

	Page
Acknowledgments	v
Summary of findings	1
Salaries	
Postgraduation Status	
Advanced Study Plans and Postdoctoral Fellowships	
Graduates of ACS Approved Programs	
Schools and Employers	
Scope and Methods	9
Objectives	
Methods of Collection and Timing of Survey	
Extent of Coverage	
Definitions	
Geographic Regions	
Technical Notes	13
Discrepancies Among Tables	
Estimates of Median Salaries	
Comparing Salaries	
Estimating Sampling Error for Percents	
List of Tables	15
Tables	19
Survey Questionnaire and Cover Letter	77

ACKNOWLEDGMENTS

Each year at the direction of its Joint Board-Council Committee on Economic Status, the American Chemical Society surveys chemistry and chemical engineering graduates to determine trends in starting salaries and employment status. Terrence Russell, Nguyen Bailey and Joan Burrelli of ACS Statistical Services, managed by John Robert Jones, conducted this year's survey and prepared this report.

Robert K. Neuman, Head
Department of Professional Services

SUMMARY OF FINDINGS

SALARIES

Reported salaries for inexperienced chemists and chemical engineers are moderately higher in 1985 than in 1984 in current dollars. After adjusting for inflation, salary gains for chemists were slightly higher than those for chemical engineers.

The gain or loss in constant dollars also varies according to type of degree. Salaries of inexperienced B.S. chemists rose 5.5% over the 1984 figure or 1.8% after adjusting for inflation. This increase is smaller than in previous years: in 1984, salaries for inexperienced B.S. chemists rose 5.5% in constant dollars. Salaries of inexperienced chemists with masters degrees showed the largest gains: up 11.1% over 1984, or an increase of 9.8% after adjusting for inflation. Ph.D. salaries rose slightly, but did not keep pace with inflation.

Table 1 shows average starting salaries paid to inexperienced chemistry graduates for 1984 and 1985, and gives additional information concerning the variation among individual salaries within each group. Table 2 presents corresponding information for chemical engineering graduates.

For inexperienced chemists, 1985 mean starting salaries were:

$19,708 for the BS,	up 5.5%,	or in constant dollars	up 1.8%
$26.432 for the MS,	up 11.1%,	or in constant dollars	up 9.8%
$33,096 for the PhD,	up 3.2%,	or in constant dollars	down 0.5%

Chemical engineers continue to receive larger starting salaries than do chemists with similar degrees. Among chemical engineers the 1985 mean starting salaries were:

$27,099 for the BS,	up 3.2%,	or in constant dollars	down 0.5%
$30,742 for the MS,	up 0.4%,	or in constant dollars	down 3.3%
$40,993 for the PhD,	up 5.2%,	or in constant dollars	up 1.5%

POST-GRADUATION EMPLOYMENT STATUS

Unemployment rates for B.S. chemists and chemical engineers were lower in 1985 than in 1984. The extent of unemployment for M.S. and Ph.D. graduates, however, was slightly higher.

Unemployment of recent BS graduates is less severe in chemistry this year than it is in chemical engineering, but even in chemistry the problem is worse than the figures in Table 3 seem to indicate. To understand the extent of unemployment among new chemistry graduates requires an additional calculation. Because unemployment is defined as a fraction of the labor force, persons not seeking work (the majority of BS chemistry graduates) are neither employed nor unemployed. An accurate reading of unemployment requires removing two groups not seeking employment from the denominator of the unemployment rate: graduates who plan to attend graduate school and those not seeking full-time employment, most of whom plan to attend medical or other professional schools. Performing the calculation in this way yields larger unemployment rates among

Table 1

STARTING YEARLY SALARIES OF INEXPERIENCED FULL-TIME EMPLOYED CHEMISTRY GRADUATES

by Degree: Summer 1984 and Summer 1985

Salaries	DEGREE LEVEL					
	Bachelor's		Master's		Ph.D.	
	1984	1985	1984	1985	1984	1985
90th Percentile	$24,000	$24,772	$30,760	$32,100	$36,504	$38,880
75th Percentile	21,600	22,800	28,550	30,000	35,500	37,725
50th Percentile	18,800	19,500	26,000	27,000	34,200	35,850
25th Percentile	16,000	17,000	18,300	23,500	31,000	30,000
10th Percentile	13,000	14,000	15,600	17,720	20,800	21,300
Mean	18,681	19,708	23,796	26,432	32,075	33,096
Count	274	296	25	45	107	92
Standard Deviation	4,435	4,200	5,906	5,886	5,824	6,977

Table 2

STARTING YEARLY SALARIES OF INEXPERIENCED FULL-TIME EMPLOYED CHEMICAL ENGINEERING GRADUATES

by Degree: Summer 1984 and Summer 1985

Salaries	DEGREE LEVEL					
	Bachelor's		Master's		Ph.D.	
	1984	1985	1984	1985	1984	1985
90th Percentile	$29,100	$30,000	$32,420	$33,532	$40,400	$45,000
75th Percentile	28,200	29,100	31,400	32,000	41,875	43,000
50th Percentile	27,000	28,020	30,300	31,400	39,950	40,000
25th Percentile	25,500	26,000	30,000	30,000	38,000	39,480
10th Percentile	21,488	22,100	28,900	26,000	30,300	38,000
Mean	26,259	27,099	30,619	30,742	38,947	40,993
Count	473	481	47	48	20	47
Standard Deviation	3,417	3,340	3,002	4,285	3,926	3,101

recipients of the bachelor's degree: 23% in chemistry and 22% in chemical engineering.

The recent history for unemployment calculated in this way is:

	1985	1984	1983	1982	1981
Chemical Engineering	22%	24%	42%	26%	8%
Chemistry	23	27	31	21	23

PLANS FOR ADVANCED STUDY and POSTDOCTORAL FELLOWSHIPS

In chemistry, postdoctoral fellows as a percent of new PhDs provides a rough indicator of demand. Because some of the new doctoral chemists who accept postdoctoral fellowships would have preferred full-time employment, an increase in the fraction accepting such fellowships indicates insufficient full-time employment. This year this measure of demand indicates that the climate is slightly more hospitable than it was last year: 30.6% accepted postdoctoral positions in 1985 as compared with 37.9% in 1984.

Bachelor's degree recipients' plans for advanced study are little different from those of last year's graduates. A summary of these plans appears in Tables 4 and 5.

CHEMISTRY GRADUATES WHO HAVE COMPLETED ACS APPROVED PROGRAMS

Graduates completing undergraduate chemistry programs approved by the ACS's Committee on Professional Training, generally received higher starting salaries than graduates not completing approved programs (see Table A-10). One third of all BS chemistry graduates responding to the survey planned to study medicine. More than 73 percent of those studying medicine were in non-approved programs (see table C-5). The unemployment rate for graduates of approved programs was somewhat lower (11% versus 12%) than that for graduates of non-approved programs.

CHARACTERISTICS OF DEGREE GRANTING INSTITUTIONS AND EMPLOYERS

The type and size of the school from which new B.S. graduates received their degrees was more variable for chemists than for chemical engineers. Generally speaking, salaries were not found to be dependent on type of school (public versus private) or type of degree granted by the school (B.S., M.S., or Ph.D.). This may be due to the small sample size. Only in the case of chemists from private schools did type of degree granted make a difference. Chemists from private schools granting graduate degrees made higher salaries than chemists from private schools granting only B.S. degrees. On the other hand, size of school was found to greatly influence salaries of both chemists and chemical engineers. For the most part, salaries were higher for graduates of larger schools (greater than 1500 students) than for graduates of smaller schools (less than 1500 students.)

Table 3

POSTGRADUATION STATUS OF CHEMISTRY AND CHEMICAL ENGINEERING GRADUATES: SUMMER 1985

Major and Employment Status	Bachelor's	Master's	Doctorates
CHEMISTRY			
Full-time employed:			
In chemistry or chemical engineering	29.1%	47.3%	57.6%
Outside chemistry or chemical engineering	8.9	5.4	2.0
Postdoctoral/grad. asst./other fellowship	20.5	24.7	30.6
Unemployed and seeking full-time employment	11.7	6.5	4.9
Unemployed and not seeking full-time employment	27.8	13.4	0.8
No response	2.0	2.7	4.1
Total	100.0	100.0	100.0
Number of responses	1,432	186	245
CHEMICAL ENGINEERING			
Full-time employed:			
In chemistry or chemical engineering	47.5	50.6	81.5
Outside chemistry or chemical engineering	15.0	7.8	5.4
Postdoctoral/grad. asst./other fellowship	6.9	20.0	5.4
Unemployed and seeking full-time employment	18.5	9.4	3.3
Unemployed and not seeking full-time employment	9.7	8.3	1.1
No response	2.3	3.9	3.3
Total	100.0	100.0	100.0
Number of responses	1,357	180	92

Table 4

PLANS FOR FURTHER STUDY OF B.S. CHEMISTRY
AND CHEMICAL ENGINEERING GRADUATES: FALL 1985

Plans	Chemistry	Chemical Engineering
Further studies	58.1%	30.8%
Full-time	(48.3)	(17.8)
Part-time	(9.8)	(13.0)
Have no plans or no response	41.3	68.5
Total	100.0	100.0
Number of responses	1,432	1,357

Table 5

FIELDS OF STUDY OF B.S. CHEMISTRY AND
CHEMICAL ENGINEERING GRADUATES WHO PLAN FURTHER STUDIES
Fall 1985

Field of Study	Chemistry	Chemical Engineering
Full-time		
Chemistry or biochemistry	49.3%	4.6%
Chemical engineering	1.9	51.9
Medicine or dentistry	33.3	7.9
Business or management	2.5	8.3
All others	13.0	27.3
Total	100.0	100.0
Number of responses	691	241
Part-time		
Chemistry or biochemistry	54.6%	5.1%
Chemical engineering	1.4	22.0
Medicine or dentistry	2.8	0.6
Business or management	11.3	39.5
All others	29.9	32.8
Total	100.0	100.0
Number of responses	141	177

The greater variability among chemists' median salaries is also seen in comparisons of employing firms ranked by the number of employees. The range of chemists' median salaries was 22% compared to a 12% range for the chemical engineers. Proportionally more chemists than chemical engineers took employment in firms with less than 500 employees (38.5% of chemists compared to 14.8% of chemical engineers). Because those firms offered a lower median starting salary than larger ones, proportionally more chemists were clustered at the lower end of the salary range.

We suggest that these differences ought to be taken into account, along with more obvious ones, when comparing salaries.

SCOPE AND METHOD

OBJECTIVES

The 1985 Starting Salary Survey is the 34th in the series of annual surveys now conducted by Statistical Services of the American Chemical Society. Summaries of the results of these surveys appear annually in the "Chemical Careers" edition of the Chemical and Engineering News, this year published on October 14.

The primary objective of the survey is to gather data on the starting salaries and occupational status of new chemists and chemical engineers who graduated during the 1984-85 academic year. The survey covers bachelor's, master's, and doctoral degree recipients. In addition, the survey provides information on graduates' sex, citizenship, and ethnicity.

METHOD OF COLLECTION AND TIMING OF SURVEY

Chemistry departments approved by the ACS and chemical engineering departments approved by the American Institute of Chemical Engineers and the Engineer's Council for Professional Development provided names and addresses of students that had graduated between September, 1984 and June, 1985. During the summer of 1985, ACS Statistical Services mailed questionnaires to those graduates who had U.S. addresses. Summer 1984 graduates were excluded from the mailing because many of them had twelve months' experience by the time the survey was conducted.

EXTENT OF COVERAGE

Survey questionnaires were mailed between July and September to approximately 13,000 graduates. By the cutoff date of October 21, Statistical Services had received 3,751 usable responses.

The survey respondents represent about one-eighth of all 1984-85 chemistry graduates and about one-sixth of the chemical engineering graduates. No attempt was made to examine the characteristics of graduates from departments that did not participate in the survey or of those graduates who did not mail back completed questionnaires.

DEFINITIONS

The questionnaire appears at the end of this report. Responses to questions on post-graduation status were edited to eliminate multiple responses and to reflect as accurately as possible the employment status of the respondent.

The term "inexperienced" as used in the tables refers to those who have 12 months or less of prior professional work experience. The term "chemist" refers to one who received a degree in chemistry and is working full-time in chemistry or chemical engineering. The term "chemical engineer" refers to one who received a degree in chemical engineering and is working full-time in chemistry of chemical engineering. Salary tables are based only on salaries of those who found full-time employment in chemistry or chemical engineering. Postdoctoral salaries are analyzed separately. Salaries are reported in U.S. dollars.

The Technical Notes present methods for estimating sampling error and also explain certain discrepancies among some of the tables.

GEOGRAPHIC REGIONS

PACIFIC

- Alaska
- California
- Hawaii
- Oregon
- Washington

MOUNTAIN

- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

WEST NORTH CENTRAL

- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

WEST SOUTH CENTRAL

- Arkansas
- Louisiana
- Oklahoma
- Texas

EAST NORTH CENTRAL

- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

EAST SOUTH CENTRAL

- Alabama
- Kentucky
- Mississippi
- Tennessee

MIDDLE ATLANTIC

- New Jersey
- New York
- Pennsylvania

SOUTH ATLANTIC

- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

NEW ENGLAND

- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

TECHNICAL NOTES

DISCREPANCIES AMONG TABLES

Because not all individuals responded to all of the questionnaire items, some pairs of tables contain totals that should be identical but are not. For example, one table may group PhDs according to sex and another according to geographic region. The totals will differ unless the number who did not indicate their sex is the same as the number who did not indicate their geographic region.

ESTIMATES OF MEDIAN SALARIES

Median salaries displayed within the cells of the salary tables are sample medians and are therefore subject to sampling error. This error may be quite large, especially when the number of respondents in the corresponding cell is small. Therefore, median salaries in cells with fewer than 15 respondents should not be used to estimate their corresponding population medians. Similarly, tables showing the 25th and 75th salary percentiles, and those showing the 10th and 90th salary percentiles, should have at least 25 respondents and 40 respondents respectively.

COMPARING SALARIES

Often questions arise concerning women's salaries as compared with men's, or chemists' salaries as compared with chemical engineers'. These and similar comparisons require caution.

Statistical tests should be performed to determine whether observed differences in salaries of various sample groups could be mere chance occurrences resulting from peculiarities of the samples. Whether a difference in salaries is "statistically significant" depends not only on the magnitude of the difference but also on the sample sizes and the magnitudes of the sample standard deviations.

Statistical tests of significance may be found in Numerical and Statistical Techniques, by J. H. Pollard, Handbook of Tables for Probability and Statistics, published by the Chemical Rubber Company, and in other similar texts.

ESTIMATING SAMPLING ERROR FOR PERCENTS

Percents in this report are derived from the sample. If the entire population had received and returned questionnaires, most estimates would be somewhat different. How much different? Although this question does not have an exact answer, the table below does provide some guidance. To use the table, find the column headed by the percent (p) derived from the sample, and find the row appropriate for the sample size (n). (Approximations for p and n may be used.) Note the number in that column and that row of the table.

This number from the body of the table measures the precision with which the sample percent estimates the percent of the entire population. Specifically, if this procedure is applied repeatedly, about 95 times out of 100, the population percent will differ from the sample percent by no more than the amount shown in the table.

Approximate Sampling Errors for Percents

n	p= 10% or 90%	p= 20% or 80%	p= 30% or 70%	p=40% or 60%	p= 50%
50	8.3%	11.1%	12.7%	13.6%	13.9%
100	5.9	7.8	9.0	9.6	9.8
200	4.2	5.5	6.4	6.8	6.9
500	2.6	3.5	4.0	4.3	4.4
1000	1.9	2.5	2.8	3.0	3.1
2000	1.3	1.8	2.0	2.1	2.2
5000	0.8	1.1	1.3	1.4	1.4
10000	0.6	0.8	0.9	1.0	1.0

In Table B-1a for example, 141 respondents classified as chemists indicated their highest degree as PhD, and their employment status as employed full-time in chemistry or chemical engineering. The percent of this group who are women is listed at 19.9 percent (p=19.9). A "95% confidence interval" for this percent may be approximately by taking n and p to be about 100 and 20%. The table shows an approximate sampling error of 7.8%. Hence, the 95% confidence interval is 12.1% to 27.7%. If 100 similar estimates were made at this "level of confidence," about 95 of the true population percents would be contained in their respective intervals.

LIST OF TABLES

	Table	Page
SALARIES OF RESPONDENTS		
Full-time Chemists		
Degree---Experience	A-1	19
Full-time Chemical Engineers		
Degree---Experience	A-2	20
Full-time Inexperienced Chemists in Private Industry		
Degree---Sex	A-3	21
Full-time Inexperienced Chemical Engineers in Private Industry		
Degree---Sex	A-4	22
Full-time Employed Inexperienced Chemists		
Degree---Sex	A-5	23
Employer	A-6	24
Men	A-7	25
Women	A-8	26
Degree---Geographic Region	A-9	27
Employer---ACS Approved Curriculum - BS	A-10	28
Degree---Degree Specialty--- MS and PhD	A-11	29
Full-Time Employed Inexperienced Chemical Engineers		
Degree--- Sex	A-12	30
Employer	A-13	31
Men	A-14	32
Women	A-15	33
Degree---Geographic Region	A-16	34
Full-time Employed Inexperienced Chemists and Chemical Engineers		
School Type---BS	A-17	35
School Size---BS	A-18	36
Employer Size---BS	A-19	37
EMPLOYMENT STATUS		
All Chemists		
Employment Status---Degree---Sex	B-1a	38
Plans for Advanced Study---Degree---Sex	B-1b	39
Employment Status---Degree---Citizenship	B-2a	40
Plans for Advanced Study---Degree---Citizenship	B-2b	41
Employment Status---Ethnicity---Degree	B-3a	42
Plans for Advanced Study---Ethnicity---Degree	B-3b	43
Employment Status---ACS Approved Curriculum BS	B-4a	44
Plans for Advanced Study---ACS Approved Curriculum BS	B-4b	45
Employment Status---Degree Specialty---MS	B-5	46
PhD	B-6	47

	Table	Page
All Chemical Engineers		
Employment Status----Degree----------Sex----------	B-7a	48
Plans for Advanced Study--------Degree-------Sex----------	B-7b	49
Employment Status----Degree----------Citizenship----	B-8a	50
Plans for Advanced Study--------Degree-------Citizenship----	B-8b	51
Employment Status----Degree----------Ethnicity------	B-9a	52
Plans for Advanced Study--------Degree-------Ethnicity------	B-9b	53
ADVANCED FURTHER STUDIES		
Part-time Study		
Chemistry Graduates		
Field of Advanced Study----Degree----------Sex----------	C-1	54
ACS Approved Curriculum - BS----	C-2	55
Chemical Engineering Graduates		
Field of Advanced Study ---BS and MS--------Sex----------	C-3	56
Full-time Study		
Chemistry Graduates		
Field of Advanced Study----Degree----------Sex----------	C-4	57
ACS Approved Curriculum - BS-----	C-5	58
Chemical Engineering Graduates		
Field of Advanced Study ---BS and MS--------Sex----------	C-6	59
BS Chemistry and Chemical Engineering Graduates Not Employed and Not Seeking Employment		
Chemistry Graduates		
Sex----------Plans for Further Studies--------	C-7	60
Chemical Engineering Graduates		
Sex----------Plans for Further Studies--------	C-8	61
AGE DISTRIBUTION OF RESPONDENTS		
All Chemistry and Chemical Engineering Graduates		
Age ----------Sex---------- BS----------	D-1	62
MS----------	D-2	63
PhD----------	D-3	64
Postdoctoral Chemists		
Age----------Sex----------	D-4	65
NUMBER OF JOB OFFERS		
Full-time Employed Inexperienced Chemists		
Number of Offers----------Degree----------Sex----------	E-1	66
Full-time Employed Experienced Chemists		
Number of Offers----------Degree----------Sex----------	E-2	67
Full-time Employed Inexperienced Chemical Engineers		
Number of Offers----------Degree----------Sex----------	E-3	68
Full-time Employed Experienced Chemical Engineers		
Number of Offers----------Degree----------Sex----------	E-4	69

	Table	Page
ETHNIC CLASSIFICATION AND CITIZENSHIP		
All Chemistry Graduates		
Citizenship----------Degree----------Ethnicity------	F-1	70
Sex----------	F-2	71
Minority Chemistry Graduates		
Minority Classification----Degree----------Sex----------	F-3	72
All Chemical Engineering Graduates		
Citizenship----------Degree----------Ethnicity------	F-4	73
Sex----------	F-5	74
Minority Chemical Engineering Graduates		
Minority Classification----Degree----------Sex----------	F-6	75

TABLE A-1

SALARIES of CHEMISTS employed FULL-TIME
according to DEGREE and EXPERIENCE
1985 Starting Salary Survey

	DEGREE			
WORK EXPERIENCE	B.S.	M.S.	Ph.D.	
Less than	19,500	27,000	35,850	- Median
12 months	19,708	26,432	33,096	- Mean
	4,200	5,886	6,977	- Std Dev
	296	45	92	- Count
12-36 Months	20,400	27,500	35,250	
	20,564	26,523	33,815	
	3,989	5,687	6,336	
	67	17	24	
More than	22,900	30,500	36,350	
36 months	23,661	30,223	31,091	
	5,422	5,994	10,805	
	44	22	22	
No Response	9,100	9,000	32,000	
	9,100	9,000	32,000	
	---	---	11,314	
	1	1	2	
ALL LEVELS OF	20,000	27,600	35,850	
EXPERIENCE	20,249	27,226	32,889	
	4,502	6,327	7,601	
	408	85	140	

TABLE A-2

SALARIES of CHEMICAL ENGINEERS employed FULL-TIME
according to DEGREE and EXPERIENCE
1985 Starting Salary Survey

	DEGREE			
WORK EXPERIENCE	B.S.	M.S.	Ph.D.	
Less than	28,020	31,400	40,000	- Median
12 months	27,099	30,742	40,993	- Mean
	3,340	4,285	3,101	- Std Dev
	481	48	47	- Count
12-36 Months	28,800	31,500	41,400	
	27,730	30,004	40,909	
	3,366	5,073	3,433	
	137	27	15	
More than	29,000	38,500	34,500	
36 months	28,023	36,623	36,658	
	2,803	5,957	6,628	
	17	12	12	
No Response	28,200	---	---	
	28,200	---	---	
	---	---	---	
	1	0	0	
ALL LEVELS OF	28,200	31,500	40,400	
EXPERIENCE	27,261	31,324	40,273	
	3,338	5,197	4,184	
	636	87	74	

TABLE A-3

SALARIES of INEXPERIENCED CHEMISTS employed FULL-TIME in PRIVATE INDUSTRY
according to DEGREE and SEX
1985 Starting Salary Survey

	DEGREE			
SEX	B.S.	M.S.	Ph.D.	
Men	21,100	27,720	36,500	- Median
	21,326	27,657	36,526	- Mean
	3,943	4,247	2,877	- Std Dev
	108	25	53	- Count
Women	20,000	28,000	37,400	
	20,324	29,900	37,056	
	3,745	4,626	2,043	
	87	11	9	
BOTH SEXES	21,000	27,900	36,550	
	20,879	28,342	36,603	
	3,879	4,425	2,763	
	195	36	62	

TABLE A-4

SALARIES of INEXPERIENCED CHEMICAL ENGINEERS employed FULL-TIME in PRIVATE INDUSTRY according to DEGREE and SEX
1985 Starting Salary Survey

	DEGREE			
SEX	B.S.	M.S.	Ph.D.	
Men	28,200	31,800	41,000	- Median
	27,597	31,872	41,203	- Mean
	3,022	3,739	2,271	- Std Dev
	285	31	25	- Count
Women	28,990	32,000	40,000	
	27,584	31,600	41,543	
	3,172	851	2,374	
	124	6	7	
BOTH SEXES	28,380	31,800	40,500	
	27,593	31,828	41,278	
	3,065	3,430	2,259	
	409	37	32	

TABLE A-5

SALARIES of INEXPERIENCED CHEMISTS employed FULL-TIME
according to DEGREE and SEX
1985 Starting Salary Survey

	DEGREE			
SEX	B.S.	M.S.	Ph.D.	
Men	20,000	27,600	36,000	- Median
	20,188	27,341	33,249	- Mean
	4,429	4,352	6,853	- Std Dev
	158	27	76	- Count
Women	19,000	26,750	35,550	
	19,159	25,067	32,366	
	3,865	7,578	7,731	
	138	18	16	
BOTH SEXES	19,500	27,000	35,850	
	19,708	26,432	33,096	
	4,200	5,886	6,977	
	296	45	92	

TABLE A-6

SALARIES of INEXPERIENCED CHEMISTS employed FULL-TIME
according to DEGREE and EMPLOYER
1985 Starting Salary Survey

	DEGREE			
EMPLOYER	B.S.	M.S.	Ph.D.	
Private industry	21,000	27,900	36,550	- Median
	20,879	28,342	36,603	- Mean
	3,879	4,425	2,763	- Std Dev
	195	36	62	- Count
College or university	15,250	17,300	22,250	
	14,406	16,460	21,889	
	2,917	4,051	4,020	
	8	5	18	
High school	15,300	---	---	
	15,780	---	---	
	3,249	---	---	
	12	0	0	
Government	17,824	21,400	33,000	
	18,281	21,400	31,310	
	4,326	2,263	4,739	
	17	2	6	
Military	25,200	---	---	
	25,200	---	---	
	---	---	---	
	1	0	0	
Hospital laboratory	17,054	17,000	12,500	
	17,202	17,000	12,500	
	3,676	---	---	
	36	1	1	
Other	18,250	27,000	36,500	
	18,673	27,000	35,775	
	3,657	---	4,382	
	26	1	4	
No Response	17,000	---	38,000	
	17,000	---	38,000	
	---	---	---	
	1	0	1	
ALL EMPLOYERS	19,500	27,000	35,850	
	19,708	26,432	33,096	
	4,200	5,886	6,977	
	296	45	92	

TABLE A-7

SALARIES of INEXPERIENCED CHEMISTS employed FULL-TIME - MEN only
according to DEGREE and EMPLOYER
1985 Starting Salary Survey

	DEGREE			
EMPLOYER	B.S.	M.S.	Ph.D.	
Private industry	21,100	27,720	36,500	- Median
	21,326	27,657	36,526	- Mean
	3,943	4,247	2,877	- Std Dev
	108	25	53	- Count
College or university	15,000	---	22,250	
	13,810	---	21,500	
	3,672	---	3,838	
	5	0	16	
High school	14,000	---	---	
	15,207	---	---	
	3,360	---	---	
	5	0	0	
Government	18,000	19,800	35,000	
	19,435	19,800	34,667	
	5,779	---	1,528	
	7	1	3	
Military	25,200	---	---	
	25,200	---	---	
	---	---	---	
	1	0	0	
Hospital or laboratory	17,000	---	---	
	17,369	---	---	
	4,425	---	---	
	17	0	0	
Other	19,250	27,000	36,500	
	19,136	27,000	35,775	
	3,353	---	4,382	
	14	1	4	
No Response	17,000	---	---	
	17,000	---	---	
	---	---	---	
	1	0	0	
ALL EMPLOYERS	20,000	27,600	36,000	
	20,188	27,341	33,249	
	4,429	4,352	6,853	
	158	27	76	

TABLE A-8

SALARIES of INEXPERIENCED CHEMISTS employed FULL-TIME - WOMEN only
according to DEGREE and EMPLOYER
1985 Starting Salary Survey

	DEGREE			
EMPLOYER	B.S.	M.S.	Ph.D.	
Private industry	20,000	28,000	37,400	- Median
	20,324	29,900	37,056	- Mean
	3,745	4,626	2,043	- Std Dev
	87	11	9	- Count
College or university	15,500	17,300	25,000	
	15,400	16,460	25,000	
	656	4,051	5,657	
	3	5	2	
High school	16,600	---	---	
	16,190	---	---	
	3,370	---	---	
	7	0	0	
Government	17,662	23,000	26,381	
	17,473	23,000	27,954	
	3,039	---	4,472	
	10	1	3	
Military	---	---	---	
	---	---	---	
	---	---	---	
	0	0	0	
Hospital or laboratory	17,108	17,000	12,500	
	17,051	17,000	12,500	
	2,971	---	---	
	19	1	1	
Other	18,000	---	---	
	18,133	---	---	
	4,064	---	---	
	12	0	0	
No Response	---	---	38,000	
	---	---	38,000	
	---	---	---	
	0	0	1	
ALL EMPLOYERS	19,000	26,750	35,550	
	19,159	25,067	32,366	
	3,865	7,578	7,731	
	138	18	16	

TABLE A-9

SALARIES of INEXPERIENCED CHEMISTS employed FULL-TIME
according to DEGREE and GEOGRAPHIC REGION
1985 Starting Salary Survey

	DEGREE			
GEOGRAPHIC REGION	B.S.	M.S.	Ph.D.	
Pacific	21,000	30,000	35,100	- Median
	20,604	30,000	35,100	- Mean
	3,834	0	141	- Std Dev
	19	2	2	- Count
Mountain	22,200	---	35,000	
	20,671	---	27,833	
	6,024	---	13,288	
	15	0	3	
West North Central	19,000	24,950	24,480	
	19,765	24,925	27,626	
	4,670	4,811	8,585	
	23	4	7	
West South Central	20,592	25,750	29,500	
	21,677	23,783	29,463	
	3,253	4,880	7,065	
	25	6	8	
East North Central	19,750	30,000	36,000	
	19,845	29,367	34,054	
	4,188	5,747	7,520	
	62	9	24	
East South Central	17,700	12,000	29,800	
	17,700	12,000	29,800	
	3,130	---	9,617	
	5	1	2	
Middle Atlantic	20,000	27,000	35,400	
	19,837	26,860	33,698	
	3,775	7,404	6,462	
	75	12	26	
South Atlantic	18,000	27,500	36,120	
	17,924	27,200	35,070	
	3,458	3,516	3,477	
	40	7	12	
New England	17,108	25,000	37,200	
	18,256	25,000	36,020	
	5,046	2,000	4,476	
	25	3	8	
No Response	24,200	23,000	---	
	22,229	23,000	---	
	3,729	---	---	
	7	1	0	
ALL REGIONS	19,500	27,000	35,850	
	19,708	26,432	33,096	
	4,200	5,886	6,977	
	296	45	92	

TABLE A-10

SALARIES of INEXPERIENCED B.S. CHEMISTS employed FULL-TIME
according to EMPLOYER and whether graduate completed ACS APPROVED CURRICULUM
1985 Starting Salary Survey

	CURRICULUM APPROVED?			
EMPLOYER	No	Yes	ALL	
Private industry	20,000	21,500	21,000	- Median
	20,673	21,031	20,879	- Mean
	4,029	3,774	3,879	- Std Dev
	83	112	195	- Count
College or university	16,000	15,000	15,250	
	15,733	13,610	14,406	
	929	3,513	2,917	
	3	5	8	
High school	15,900	15,300	15,300	
	15,741	15,859	15,780	
	3,695	2,614	3,249	
	8	4	12	
Government	17,500	19,403	17,824	
	16,021	19,863	18,281	
	2,377	4,769	4,326	
	7	10	17	
Military	---	25,200	25,200	
	---	25,200	25,200	
	---	---	---	
	0	1	1	
Hospital or laboratory	17,874	16,600	17,054	
	18,134	16,608	17,202	
	3,650	3,651	3,676	
	14	22	36	
Other	19,000	18,000	18,250	
	19,064	18,387	18,673	
	3,726	3,709	3,657	
	11	15	26	
No Response	17,000	---	17,000	
	17,000	---	17,000	
	---	---	---	
	1	0	1	
ALL EMPLOYERS	19,000	20,000	19,500	
	19,541	19,834	19,708	
	4,144	4,250	4,200	
	127	169	296	

TABLE A-11

SALARIES of INEXPERIENCED M.S. and Ph.D. CHEMISTS employed FULL-TIME
according to DEGREE and DEGREE SPECIALTY
1985 Starting Salary Survey

	DEGREE		
DEGREE SPECIALTY	M.S.	Ph.D.	
Chemistry	27,350	---	- Median
	25,675	---	- Mean
	5,606	---	- Std Dev
	4	0	- Count
Analytical	26,500	36,000	
chemistry	26,854	35,588	
	6,964	5,019	
	13	19	
Inorganic	13,000	34,500	
chemistry	13,000	32,070	
	---	6,951	
	1	23	
Organic	27,000	35,200	
chemistry	25,848	32,772	
	3,335	6,485	
	17	29	
Polymer	25,000	39,050	
chemistry	25,000	34,650	
	---	11,251	
	1	4	
Pharmaceutical	---	---	
chemistry	---	---	
	---	---	
	0	0	
Medicinal/	---	---	
clinical chemistry	---	---	
	---	---	
	0	0	
Theoretical	---	37,300	
chemistry	---	37,300	
	---	990	
	0	2	
Environmental	---	---	
chemistry	---	---	
	---	---	
	0	0	
Agricultural/	---	---	
food chemistry	---	---	
	---	---	
	0	0	
Physical	27,000	32,000	
chemistry	27,000	30,343	
	9,721	9,302	
	5	13	
Other	31,550	36,500	
chemistry	31,300	36,500	
	1,010	2,121	
	4	2	
Non-chemistry,	---	---	
other	---	---	
	---	---	
	0	0	
ALL SPECIALTIES	27,000	35,850	
	26,432	33,096	
	5,886	6,977	
	45	92	

TABLE A-12

SALARIES of INEXPERIENCED CHEMICAL ENGINEERS employed FULL-TIME
according to DEGREE and SEX
1985 Starting Salary Survey

	DEGREE			
SEX	B.S.	M.S.	Ph.D.	
Men	28,000	31,000	41,000	- Median
	27,124	30,733	41,000	- Mean
	3,271	4,562	3,272	- Std Dev
	336	41	38	- Count
Women	28,200	32,000	39,900	
	27,042	30,800	40,967	
	3,507	2,255	2,400	
	145	7	9	
BOTH SEXES	28,020	31,400	40,000	
	27,099	30,742	40,993	
	3,340	4,285	3,101	
	481	48	47	

TABLE A-13

SALARIES OF INEXPERIENCED CHEMICAL ENGINEERS employed FULL-TIME
according to DEGREE and EMPLOYER
1985 Starting Salary Survey

	DEGREE			
EMPLOYER	B.S.	M.S.	Ph.D.	
Private industry	28,380	31,800	40,500	- Median
	27,593	31,828	41,278	- Mean
	3,065	3,430	2,259	- Std Dev
	409	37	32	- Count
College or university	---	14,000	40,950	
	---	14,000	40,370	
	---	---	5,136	
	0	1	10	
High school	17,000	---	---	
	17,000	---	---	
	---	---	---	
	1	0	0	
Government	23,170	28,000	42,550	
	23,049	27,875	42,550	
	2,949	3,473	4,172	
	33	4	2	
Military	24,085	26,000	---	
	23,068	26,000	---	
	4,352	---	---	
	4	1	0	
Hospital or laboratory	20,000	---	---	
	20,000	---	---	
	---	---	---	
	1	0	0	
Other	26,500	30,000	39,500	
	25,784	29,300	39,500	
	2,942	1,857	2,121	
	31	5	2	
No Response	30,050	---	38,000	
	30,050	---	38,000	
	71	---	---	
	2	0	1	
ALL EMPLOYERS	28,020	31,400	40,000	
	27,099	30,742	40,993	
	3,340	4,285	3,101	
	481	48	47	

TABLE A-14

SALARIES OF INEXPERIENCED CHEMICAL ENGINEERS employed FULL-TIME - MEN only
according to DEGREE and EMPLOYER
1985 Starting Salary Survey

EMPLOYER	DEGREE B.S.	M.S.	Ph.D.	
Private industry	28,200	31,800	41,000	- Median
	27,597	31,872	41,203	- Mean
	3,022	3,739	2,271	- Std Dev
	285	31	25	- Count
College or university	---	14,000	42,000	
	---	14,000	40,423	
	---	---	5,445	
	0	1	9	
High school	---	---	---	
	---	---	---	
	---	---	---	
	0	0	0	
Government	23,170	28,000	42,550	
	23,482	27,875	42,550	
	2,774	3,473	4,172	
	26	4	2	
Military	24,085	26,000	---	
	23,068	26,000	---	
	4,352	---	---	
	4	1	0	
Hospital or laboratory	20,000	---	---	
	20,000	---	---	
	---	---	---	
	1	0	0	
Other	27,000	30,000	41,000	
	26,093	30,125	41,000	
	3,221	250	---	
	19	4	1	
No Response	30,000	---	38,000	
	30,000	---	38,000	
	---	---	---	
	1	0	1	
ALL EMPLOYERS	28,000	31,000	41,000	
	27,124	30,733	41,000	
	3,271	4,562	3,272	
	336	41	38	

TABLE A-15

SALARIES of INEXPERIENCED CHEMICAL ENGINEERS employed FULL-TIME - WOMEN only
according to DEGREE and EMPLOYER
1985 Starting Salary Survey

	DEGREE			
EMPLOYER	B.S.	M.S.	Ph.D.	
Private industry	28,990	32,000	40,000	- Median
	27,584	31,600	41,543	- Mean
	3,172	851	2,374	- Std Dev
	124	6	7	- Count
College or university	---	---	39,900	
	---	---	39,900	
	---	---	---	
	0	0	1	
High school	17,000	---	---	
	17,000	---	---	
	---	---	---	
	1	0	0	
Government	21,000	---	---	
	21,440	---	---	
	3,236	---	---	
	7	0	0	
Military	---	---	---	
	---	---	---	
	---	---	---	
	0	0	0	
Hospital or laboratory	---	---	---	
	---	---	---	
	---	---	---	
	0	0	0	
Other	26,000	26,000	38,000	
	25,295	26,000	38,000	
	2,490	---	---	
	12	1	1	
No Response	30,100	---	---	
	30,100	---	---	
	---	---	---	
	1	0	0	
ALL EMPLOYERS	28,200	32,000	39,900	
	27,042	30,800	40,967	
	3,507	2,255	2,400	
	145	7	9	

TABLE A-16

SALARIES OF INEXPERIENCED CHEMICAL ENGINEERS employed FULL-TIME
according to DEGREE and GEOGRAPHIC REGION
1985 Starting Salary Survey

	DEGREE			
GEOGRAPHIC REGION	B.S.	M.S.	Ph.	
Pacific	26,500	30,000	39,900	- Median
	25,863	30,000	40,300	- Mean
	3,465	---	1,539	- Std Dev
	31	1	3	- Count
Mountain	28,125	30,258	38,000	
	28,064	30,258	40,500	
	2,005	1,756	4,330	
	8	2	3	
West North Central	28,560	31,400	38,500	
	27,690	31,655	39,076	
	2,846	1,589	5,600	
	33	4	4	
West South Central	29,130	30,500	43,000	
	28,777	30,750	42,075	
	2,259	775	1,917	
	50	10	4	
East North Central	28,200	31,750	42,000	
	27,252	30,725	40,696	
	2,880	2,871	5,382	
	116	8	5	
East South Central	27,087	32,000	39,600	
	26,364	32,000	39,600	
	3,286	---	---	
	16	1	1	
Middle Atlantic	28,000	32,100	42,000	
	26,934	30,840	42,120	
	3,561	7,282	3,073	
	106	15	10	
South Atlantic	27,036	30,800	39,800	
	26,297	29,520	40,529	
	3,513	2,816	1,695	
	88	5	14	
New England	28,500	---	45,000	
	27,356	---	45,000	
	4,964	---	---	
	24	0	1	
No Response	28,900	31,500	41,500	
	27,450	31,500	41,500	
	3,345	707	707	
	9	2	2	
ALL REGIONS	28,020	31,400	40,000	
	27,099	30,742	40,993	
	3,340	4,285	3,101	
	481	48	47	

Table A-17

SALARIES of INEXPERIENCED FULL-TIME Recipients of BACHELORS DEGREES according to DEGREE TYPE and EMPLOYER SIZE
1985 Starting Salary Survey

	DEGREE TYPE		
EMPLOYER SIZE	Chemical Engineers	Chemist	
Less than 500	27,000	20,021	- 75th %-ile
	23,500	18,000	- 50th %-ile
	21,500	15,000	- 25th %-ile
	24,085	17,926	- Mean
	4,557	4,097	- Std Dev
	71	114	- Count
500-2,499	28,725	21,000	
	27,000	18,000	
	24,000	16,500	
	26,142	18,880	
	3,507	3,222	
	84	59	
2,500-10,000	28,980	24,000	
	28,000	21,800	
	26,100	18,715	
	27,264	21,157	
	2,484	3,963	
	79	42	
10-24,999	29,075	24,000	
	28,430	22,500	
	27,000	20,000	
	27,877	21,990	
	2,189	3,532	
	64	25	
More than 25,000	29,500	24,800	
	29,000	22,878	
	28,000	20,000	
	28,364	22,695	
	2,406	3,531	
	177	49	
No Response	30,075	21,000	
	28,750	17,300	
	26,900	15,000	
	28,367	17,971	
	2,174	3,755	
	6	7	
ALL SIZES	29,100	22,800	
	28,020	19,500	
	26,000	17,000	
	27,099	19,708	
	3,340	4,200	
	481	296	

Table A-18

SALARIES of INEXPERIENCED FULL-TIME recipients of BACHELORS DEGREES
according to DEGREE TYPE and SCHOOL TYPE
1985 Starting Salary Survey

SCHOOL TYPE	DEGREE TYPE: Chemical Engineers	Chemist	
Public -- Bachelors granting	29,100	21,500	- 75th %-ile
	28,800	18,870	- 50th %-ile
	25,400	16,950	- 25th %-ile
	27,880	19,111	- Mean
	2,735	3,731	- Std Dev
	11	34	- Count
Public -- Masters granting	29,100	21,000	
	27,300	18,000	
	22,000	15,600	
	25,368	18,805	
	4,784	4,572	
	19	47	
Public -- Doctorate granting	29,100	23,000	
	28,080	20,000	
	26,000	17,912	
	27,069	19,943	
	3,455	3,900	
	333	105	
Private -- Bachelors granting	28,920	22,500	
	27,800	18,500	
	24,950	16,000	
	26,730	19,359	
	3,152	4,651	
	16	63	
Private -- Masters granting	30,000	22,000	
	29,500	20,600	
	23,200	16,250	
	27,900	20,150	
	3,667	4,239	
	15	12	
Private -- Doctorate granting	29,100	24,000	
	28,000	22,000	
	26,575	19,500	
	27,398	21,514	
	2,374	4,009	
	86	31	
No Response	---	21,525	
	29,500	19,100	
	---	17,710	
	29,500	19,445	
	---	2,089	
	1	4	
ALL TYPES	29,100	22,800	
	28,020	19,500	
	26,000	17,000	
	27,099	19,708	
	3,340	4,200	
	481	296	

TABLE A-19

SALARIES of INEXPERIENCED FULL-TIME Recipients of BACHELORS DEGREES
according to DEGREE TYPE and EMPLOYER SIZE
1985 Starting Salary Survey

	DEGREE TYPE		
SCHOOL SIZE	Chemical Engineers	Chemist	
Less than 1,500	28,010	23,000	- 75th %-ile
	23,950	19,300	- 50th %-ile
	20,475	16,000	- 25th %-ile
	24,145	19,924	- Mean
	3,925	4,907	- Std Dev
	4	31	- Count
1,500-4,999	29,200	22,125	
	28,000	18,750	
	24,550	16,000	
	26,882	19,082	
	3,278	4,117	
	73	62	
5,000-9,999	29,000	23,000	
	28,000	19,020	
	26,000	15,500	
	27,036	19,218	
	2,849	4,739	
	61	51	
10-20,000	29,280	22,850	
	28,000	19,750	
	26,050	17,825	
	27,557	20,169	
	3,561	3,680	
	85	82	
More than 20,000	29,100	23,125	
	28,200	20,000	
	26,000	17,956	
	27,094	20,109	
	3,376	4,141	
	255	66	
No Response	28,700	21,300	
	23,500	17,750	
	23,000	14,800	
	25,067	17,950	
	3,156	3,426	
	3	4	
ALL SIZES	29,100	22,800	
	28,020	19,500	
	26,000	17,000	
	27,099	19,708	
	3,340	4,200	
	481	296	

TABLE B-1a

CHEMISTRY GRADUATES
according to EMPLOYMENT STATUS, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters				Doctorate				
	SEX												
EMPLOYMENT STATUS	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	
Unemployed and seeking employment	99	69	0	168	9	3	0	12	8	4	0	12	-Count
	58.9%	41.1%	0.0%	100.0%	75.0%	25.0%	0.0%	100.0%	66.7%	33.3%	0.0%	100.0%	-% of Row
	11.5%	12.1%	0.0%	11.7%	7.1%	5.1%	***.*%	6.5%	4.0%	8.5%	***.*%	4.9%	-% of Col
Unemployed and not seeking employment	259	139	0	398	13	12	0	25	1	1	0	2	
	65.1%	34.9%	0.0%	100.0%	52.0%	48.0%	0.0%	100.0%	50.0%	50.0%	0.0%	100.0%	
	30.2%	24.3%	0.0%	27.8%	10.2%	20.3%	***.*%	13.4%	0.5%	2.1%	***.*%	0.8%	
Full-time in chemistry	233	183	0	416	59	29	0	88	113	28	0	141	
	56.0%	44.0%	0.0%	100.0%	67.0%	33.0%	0.0%	100.0%	80.1%	19.9%	0.0%	100.0%	
	27.2%	32.0%	0.0%	29.1%	46.5%	49.2%	***.*%	47.3%	57.1%	59.6%	***.*%	57.6%	
Full-time in non-chemistry	74	54	0	128	7	3	0	10	3	2	0	5	
	57.8%	42.2%	0.0%	100.0%	70.0%	30.0%	0.0%	100.0%	60.0%	40.0%	0.0%	100.0%	
	8.6%	9.4%	0.0%	8.9%	5.5%	5.1%	***.*%	5.4%	1.5%	4.3%	***.*%	2.0%	
Assistantship, postdoctoral, or other fellowship	176	118	0	294	36	10	0	46	64	11	0	75	
	59.9%	40.1%	0.0%	100.0%	78.3%	21.7%	0.0%	100.0%	85.3%	14.7%	0.0%	100.0%	
	20.5%	20.6%	0.0%	20.5%	28.3%	16.9%	***.*%	24.7%	32.3%	23.4%	***.*%	30.6%	
No Response	17	9	2	28	3	2	0	5	9	1	0	10	
	60.7%	32.1%	7.1%	100.0%	60.0%	40.0%	0.0%	100.0%	90.0%	10.0%	0.0%	100.0%	
	2.0%	1.6%	100.0%	2.0%	2.4%	3.4%	***.*%	2.7%	4.5%	2.1%	***.*%	4.1%	
ALL	858	572	2	1,432	127	59	0	186	198	47	0	245	
	59.9%	39.9%	0.1%	100.0%	68.3%	31.7%	0.0%	100.0%	80.8%	19.2%	0.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE B-1b

CHEMISTRY GRADUATES
according to PLANS FOR FURTHER STUDIES IN FALL 1985, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters				Doctorate				
	SEX												
FURTHER STUDIES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	
No plans	336	254	1	591	66	36	0	102	175	44	0	219	-Count
	56.9%	43.0%	0.2%	100.0%	64.7%	35.3%	0.0%	100.0%	79.9%	20.1%	0.0%	100.0%	-% of Row
	39.2%	44.4%	50.0%	41.3%	52.0%	61.0%	***.*%	54.8%	88.4%	93.6%	***.*%	89.4%	-% of Col
Full-time	434	256	1	691	52	19	0	71	14	2	0	16	
	62.8%	37.0%	0.1%	100.0%	73.2%	26.8%	0.0%	100.0%	87.5%	12.5%	0.0%	100.0%	
	50.6%	44.8%	50.0%	48.3%	40.9%	32.2%	***.*%	38.2%	7.1%	4.3%	***.*%	6.5%	
Part-time	84	57	0	141	6	4	0	10	4	1	0	5	
	59.6%	40.4%	0.0%	100.0%	60.0%	40.0%	0.0%	100.0%	80.0%	20.0%	0.0%	100.0%	
	9.8%	10.0%	0.0%	9.8%	4.7%	6.8%	***.*%	5.4%	2.0%	2.1%	***.*%	2.0%	
No Response	4	5	0	9	3	0	0	3	5	0	0	5	
	44.4%	55.6%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	0.5%	0.9%	0.0%	0.6%	2.4%	0.0%	***.*%	1.6%	2.5%	0.0%	***.*%	2.0%	
ALL	858	572	2	1,432	127	59	0	186	198	47	0	245	
	59.9%	39.9%	0.1%	100.0%	68.3%	31.7%	0.0%	100.0%	80.8%	19.2%	0.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE B-2a

CHEMISTRY GRADUATES
according to EMPLOYMENT STATUS, DEGREE, and CITIZENSHIP
1985 Starting Salary Survey

	Bachelors					Masters					Doctorate					
	CITIZENSHIP															
EMPLOYMENT STATUS	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	
Unemployed and seeking employment	154	10	2	2	0	6	0	1	5	0	8	1	1	2	0	- Count
	91.7%	6.0%	1.2%	1.2%	0.0%	50.0%	0.0%	8.3%	41.7%	0.0%	66.7%	8.3%	8.3%	16.7%	0.0%	- % of Row
	11.4%	21.7%	12.5%	18.2%	0.0%	3.8%	0.0%	33.3%	26.3%	***.*%	3.9%	20.0%	14.3%	6.9%	***.*%	- % of Col
Unemployed and not seeking employment	374	16	4	4	0	20	1	0	4	0	1	0	0	1	0	
	94.0%	4.0%	1.0%	1.0%	0.0%	80.0%	4.0%	0.0%	16.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	
	27.6%	34.8%	25.0%	36.4%	0.0%	12.7%	14.3%	0.0%	21.1%	***.*%	0.5%	0.0%	0.0%	3.4%	***.*%	
Full-time in chemistry	396	11	7	1	1	84	3	0	1	0	128	3	3	7	0	
	95.2%	2.6%	1.7%	0.2%	0.2%	95.5%	3.4%	0.0%	1.1%	0.0%	90.8%	2.1%	2.1%	5.0%	0.0%	
	29.3%	23.9%	43.8%	9.1%	16.7%	53.5%	42.9%	0.0%	5.3%	***.*%	62.7%	60.0%	42.9%	24.1%	***.*%	
Full-time in non-chemistry	125	0	1	0	2	10	0	0	0	0	4	0	0	1	0	
	97.7%	0.0%	0.8%	0.0%	1.6%	100.0%	0.0%	0.0%	0.0%	0.0%	80.0%	0.0%	0.0%	20.0%	0.0%	
	9.2%	0.0%	6.3%	0.0%	33.3%	6.4%	0.0%	0.0%	0.0%	***.*%	2.0%	0.0%	0.0%	3.4%	***.*%	
Assistantship, postdoctoral, or other fellowship	280	9	2	3	0	34	1	2	9	0	55	1	2	17	0	
	95.2%	3.1%	0.7%	1.0%	0.0%	73.9%	2.2%	4.3%	19.6%	0.0%	73.3%	1.3%	2.7%	22.7%	0.0%	
	20.7%	19.6%	12.5%	27.3%	0.0%	21.7%	14.3%	66.7%	47.4%	***.*%	27.0%	20.0%	28.6%	58.6%	***.*%	
No Response	24	0	0	1	3	3	2	0	0	0	8	0	1	1	0	
	85.7%	0.0%	0.0%	3.6%	10.7%	60.0%	40.0%	0.0%	0.0%	0.0%	80.0%	0.0%	10.0%	10.0%	0.0%	
	1.8%	0.0%	0.0%	9.1%	50.0%	1.9%	28.6%	0.0%	0.0%	***.*%	3.9%	0.0%	14.3%	3.4%	***.*%	
ALL	1,353	46	16	11	6	157	7	3	19	0	204	5	7	29	0	
	94.5%	3.2%	1.1%	0.8%	0.4%	84.4%	3.8%	1.6%	10.2%	0.0%	83.3%	2.0%	2.9%	11.8%	0.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	***.*%	

TABLE B-2b

CHEMISTRY GRADUATES
according to PLANS FOR FURTHER STUDIES IN FALL 1985, DEGREE, and CITIZENSHIP
1985 Starting Salary Survey

	Bachelors					Masters					Doctorate					
	CITIZENSHIP															
FURTHER STUDIES	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	
No Plans	563	17	7	1	3	94	4	1	3	0	183	4	7	25	0	- Count
	95.3%	2.9%	1.2%	0.2%	0.5%	92.2%	3.9%	1.0%	2.9%	0.0%	83.6%	1.8%	3.2%	11.4%	0.0%	- % of Row
	41.6%	37.0%	43.8%	9.1%	50.0%	59.9%	57.1%	33.3%	15.8%	***.*%	89.7%	80.0%	100.0%	86.2%	***.*%	- % of Col
Full-time	646	27	8	9	1	52	2	1	16	0	13	0	0	3	0	
	93.5%	3.9%	1.2%	1.3%	0.1%	73.2%	2.8%	1.4%	22.5%	0.0%	81.3%	0.0%	0.0%	18.8%	0.0%	
	47.7%	58.7%	50.0%	81.8%	16.7%	33.1%	28.6%	33.3%	84.2%	***.*%	6.4%	0.0%	0.0%	10.3%	***.*%	
Part-time	136	2	1	1	1	9	0	1	0	0	5	0	0	0	0	
	96.5%	1.4%	0.7%	0.7%	0.7%	90.0%	0.0%	10.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0	
	10.1%	4.3%	6.3%	9.1%	16.7%	5.7%	0.0%	33.3%	0.0%	***.*%	2.5%	0.0%	0.0%	0.0%	***.*%	
No Response	8	0	0	0	1	2	1	0	0	0	3	1	0	1	0	
	88.9%	0.0%	0.0%	0.0%	11.1%	66.7%	33.3%	0.0%	0.0%	0.0%	60.0%	20.0%	0.0%	20.0%	0.0%	
	0.6%	0.0%	0.0%	0.0%	16.7%	1.3%	14.3%	0.0%	0.0%	***.*%	1.5%	20.0%	0.0%	3.4%	***.*%	
ALL	1,353	46	16	11	6	157	7	3	19	0	204	5	7	29	0	
	94.5%	3.2%	1.1%	0.8%	0.4%	84.4%	3.8%	1.6%	10.2%	0.0%	83.3%	2.0%	2.9%	11.8%	0.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	***.*%	

TABLE B-3a

CHEMISTRY GRADUATES
according to EMPLOYMENT STATUS, ETHNICITY, and DEGREE
1985 Starting Salary Survey

	DEGREE			
EMPLOYMENT STATUS	B.S.	M.S.	Ph.D.	
Unemployed and seeking employment	168	12	12	- Count
	87.5%	6.3%	6.3%	- % of Row
	11.8%	6.5%	4.9%	- % of Col
Unemployed and not seeking employment	396	25	2	
	93.6%	5.9%	0.5%	
	27.8%	13.5%	0.8%	
Full-time in chemistry	414	87	141	
	64.5%	13.6%	22.0%	
	29.1%	47.0%	57.6%	
Full-time in non-chemistry	127	10	5	
	89.4%	7.0%	3.5%	
	8.9%	5.4%	2.0%	
Assistantship, Postdoctoral or other fellowship	291	46	75	
	70.5%	11.1%	18.2%	
	20.5%	24.9%	30.6%	
No Response	26	5	10	
	63.4%	12.2%	24.4%	
	1.8%	2.7%	4.1%	
ALL	1,422	185	245	
	76.7%	10.0%	13.2%	
	100.0%	100.0%	100.0%	

TABLE B-3b

CHEMISTRY GRADUATES
according to PLANS FOR FURTHER STUDIES IN FALL 1985, ETHNICITY, and DEGREE
1985 Starting Salary Survey

	DEGREE			
FURTHER STUDIES	B.S.	M.S.	Ph.D.	
No plans	588	101	219	- Count
	64.8%	11.1%	24.1%	- % of Row
	41.4%	54.6%	89.4%	- % of Col
Full-time	687	71	16	
	88.6%	9.2%	2.1%	
	48.3%	38.4%	6.5%	
Part-time	139	10	5	
	90.3%	6.5%	3.2%	
	9.8%	5.4%	2.0%	
No Response	8	3	5	
	50.0%	18.8%	31.3%	
	0.6%	1.6%	2.0%	
ALL	1,422	185	245	
	76.7%	10.0%	13.2%	
	100.0%	100.0%	100.0%	

TABLE B-4a

BACHELORS CHEMISTRY GRADUATES
according to EMPLOYMENT STATUS
and whether graduate completed ACS APPROVED CURRICULUM
1985 Starting Salary Survey

	CURRICULUM APPROVED?			
EMPLOYMENT STATUS	No	Yes	ALL	
Unemployed and seeking employment	85	83	168	- Count
	50.6%	49.4%	100.0%	- % of Row
	12.1%	11.4%	11.7%	- % of Col
Unemployed and not seeking employment	252	146	398	
	63.3%	36.7%	100.0%	
	35.7%	20.1%	27.8%	
Full-time in chemistry	190	226	416	
	45.7%	54.3%	100.0%	
	27.0%	31.1%	29.1%	
Full-time in non-chemistry	78	50	128	
	60.9%	39.1%	100.0%	
	11.1%	6.9%	8.9%	
Assistantship, postdoctoral or other fellowship	85	209	294	
	28.9%	71.1%	100.0%	
	12.1%	28.7%	20.5%	
No Response	15	13	28	
	53.6%	46.4%	100.0%	
	2.1%	1.8%	2.0%	
ALL	705	727	1,432	
	49.2%	50.8%	100.0%	
	100.0%	100.0%	100.0%	

TABLE B-4b

BACHELORS CHEMISTRY GRADUATES
according to PLANS FOR FURTHER STUDIES IN FALL 1985
and whether graduate completed ACS APPROVED CURRICULUM
1985 Starting Salary Survey

	CURRICULUM APPROVED?			
FURTHER STUDIES	No	Yes	ALL	
No plans	294	297	591	- Count
	49.7%	50.3%	100.0%	- % of Row
	41.7%	40.9%	41.3%	- % of Col
Full-time	346	345	691	
	50.1%	49.9%	100.0%	
	49.1%	47.5%	48.3%	
Part-time	60	81	141	
	42.6%	57.4%	100.0%	
	8.5%	11.1%	9.8%	
No Response	5	4	9	
	55.6%	44.4%	100.0%	
	0.7%	0.6%	0.6%	
ALL	705	727	1,432	
	49.2%	50.8%	100.0%	
	100.0%	100.0%	100.0%	

TABLE B-5

MASTERS CHEMISTRY GRADUATES
according to EMPLOYMENT STATUS and DEGREE SPECIALTY
1985 Starting Salary Survey

DEGREE SPECIALTY	Unempl. and seek. empl.	Unempl. and not seeking empl.	Full-time in chem.	Full-time in non-chem.	Asst. post. or other fellow.	No Response	ALL
			EMPLOYMENT STATUS				
General chemistry	3	2	12	2	2	2	23 - Count
	13.0%	8.7%	52.2%	8.7%	8.7%	8.7%	100.0% - % of Row
	25.0%	8.0%	13.6%	20.0%	4.3%	40.0%	12.4% - % of Col
Analytical chemistry	2	5	28	1	7	1	44
	4.5%	11.4%	63.6%	2.3%	15.9%	2.3%	100.0%
	16.7%	20.0%	31.8%	10.0%	15.2%	20.0%	23.7%
Inorganic chemistry	0	4	2	0	11	2	19
	0.0%	21.1%	10.5%	0.0%	57.9%	10.5%	100.0%
	0.0%	16.0%	2.3%	0.0%	23.9%	40.0%	10.2%
Organic chemistry	4	6	28	3	15	0	56
	7.1%	10.7%	50.0%	5.4%	26.8%	0.0%	100.0%
	33.3%	24.0%	31.8%	30.0%	32.6%	0.0%	30.1%
Polymer chemistry	0	1	4	0	1	0	6
	0.0%	16.7%	66.7%	0.0%	16.7%	0.0%	100.0%
	0.0%	4.0%	4.5%	0.0%	2.2%	0.0%	3.2%
Pharmaceutical chemistry	0	0	1	0	0	0	1
	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%	0.5%
Medicinal/ clinical chemistry	0	1	1	0	0	0	2
	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	4.0%	1.1%	0.0%	0.0%	0.0%	1.1%
Theoretical chemistry	0	0	0	0	2	0	2
	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	4.3%	0.0%	1.1%
Environmental chemistry	0	1	1	0	0	0	2
	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	100.0%
	0.0%	4.0%	1.1%	0.0%	0.0%	0.0%	1.1%
Agricultural/ food chemistry	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Physical chemistry	3	5	6	3	8	0	25
	12.0%	20.0%	24.0%	12.0%	32.0%	0.0%	100.0%
	25.0%	20.0%	6.8%	30.0%	17.4%	0.0%	13.4%
Other chemistry	0	0	5	1	0	0	6
	0.0%	0.0%	83.3%	16.7%	0.0%	0.0%	100.0%
	0.0%	0.0%	5.7%	10.0%	0.0%	0.0%	3.2%
ALL SPECIALTIES	12	25	88	10	46	5	186
	6.5%	13.4%	47.3%	5.4%	24.7%	2.7%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE B-6

Ph.D CHEMISTRY GRADUATES
according to EMPLOYMENT STATUS and DEGREE SPECIALTY
1985 Starting Salary Survey

EMPLOYMENT STATUS

DEGREE SPECIALTY	Unempl. and seek. empl.	Unempl. and not seeking empl.	Full-time in chem.	Full-time in non-chem.	Asst. post. or other fellow.	No Response	ALL
General chemistrry	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 - Count ***.*% - % of Row 0.0% - % of Col
Analytical chemistry	1 2.0% 8.3%	0 0.0% 0.0%	34 68.0% 24.1%	0 0.0% 0.0%	11 22.0% 14.7%	4 8.0% 40.0%	50 100.0% 20.4%
Inorganic chemistry	1 2 3% 8.3%	1 2.3% 50.0%	26 59.1% 18.4%	1 2.3% 20.0%	14 31.8% 18.7%	1 2.3% 10.0%	44 100.0% 18.0%
Organic chemistry	5 6.4% 41.7%	0 0.0% 0.0%	41 52.6% 29.1%	1 1.3% 20.0%	28 35.9% 37.3%	3 3.8% 30.0%	78 100.0% 31.8%
Polymer chemistry	1 7.7% 8.3%	0 0.0% 0.0%	8 61.5% 5.7%	0 0.0% 0.0%	4 30.8% 5.3%	0 0.0% 0.0%	13 100.0% 5.3%
Pharmaceutical chemistry	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%
Medicinal/ clinical chemistry	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%
Theoretical chemistry	0 0.0% 0.0%	0 0.0% 0.0%	3 50.0% 2.1%	2 33.3% 40.0%	1 16.7% 1.3%	0 0.0% 0.0%	6 100.0% 2.4%
Environmental chemistry	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 0.7%	1 50.0% 20.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 0.8%
Agricultural/ food chemistry	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%
Physical chemistry	4 8.5% 33.3%	1 2.1% 50.0%	24 51.1% 17.0%	0 0.0% 0.0%	16 34.0% 21.3%	2 4.3% 20.0%	47 100.0% 19.2%
Other chemistry	0 0.0% 0.0%	0 0.0% 0.0%	4 80.0% 2.8%	0 0.0% 0.0%	1 20.0% 1.3%	0 0.0% 0.0%	5 100.0% 2.0%
ALL SPECIALTIES	12 4.9% 100.0%	2 0.8% 100.0%	141 57.6% 100.0%	5 2.0% 100.0%	75 30.6% 100.0%	10 4.1% 100.0%	245 100.0% 100.0%

TABLE B-7a

CHEMICAL ENGINEERING GRADUATES
according to EMPLOYMENT STATUS, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters				Doctorate				
	SEX												
EMPLOYMENT STATUS	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	
Unemployed and seeking employment	175	73	3	251	12	5	0	17	3	0	0	3	- Count
	69.7%	29.1%	1.2%	100.0%	70.6%	29.4%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	- % of Row
	17.9%	19.6%	60.0%	18.5%	8.6%	12.5%	***.*%	9.4%	3.8%	0.0%	***.*%	3.3%	- % of Col
Unemployed and not seeking employment	106	25	1	132	13	2	0	15	1	0	0	1	
	80.3%	18.9%	0.8%	100.0%	86.7%	13.3%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	10.8%	6.7%	20.0%	9.7%	9.3%	5.0%	***.*%	8.3%	1.3%	0.0%	***.*%	1.1%	
Full-time in chemistry	449	195	1	645	71	20	0	91	64	11	0	75	
	69.6%	30.2%	0.2%	100.0%	78.0%	22.0%	0.0%	100.0%	85.3%	14.7%	0.0%	100.0%	
	45.9%	52.3%	20.0%	47.5%	50.7%	50.0%	***.*%	50.6%	80.0%	91.7%	***.*%	81.5%	
Full-time in non-chemistry	153	51	0	204	10	4	0	14	5	0	0	5	
	75.0%	25.0%	0.0%	100.0%	71.4%	28.6%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	15.6%	13.7%	0.0%	15.0%	7.1%	10.0%	***.*%	7.8%	6.3%	0.0%	***.*%	5.4%	
Assistantship, postdoctoral, or other fellowship	72	22	0	94	29	7	0	36	4	1	0	5	
	76.6%	23.4%	0.0%	100.0%	80.6%	19.4%	0.0%	100.0%	80.0%	20.0%	0.0%	100.0%	
	7.4%	5.9%	0.0%	6.9%	20.7%	17.5%	***.*%	20.0%	5.0%	8.3%	***.*%	5.4%	
No Response	24	7	0	31	5	2	0	7	3	0	0	3	
	77.4%	22.6%	0.0%	100.0%	71.4%	28.6%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	2.5%	1.9%	0.0%	2.3%	3.6%	5.0%	***.*%	3.9%	3.8%	0.0%	***.*%	3.3%	
ALL	979	373	5	1,357	140	40	0	180	80	12	0	92	
	72.1%	27.5%	0.4%	100.0%	77.8%	22.2%	0.0%	100.0%	87.0%	13.0%	0.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE B-7b

CHEMICAL ENGINEERING GRADUATES
according to PLANS FOR FURTHER STUDIES IN FALL 1985, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters				Doctorate				
	SEX												
FURTHER STUDIES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	
No plans	661	265	3	929	73	25	0	98	76	11	0	87	- Count
	71.2%	28.5%	0.3%	100.0%	74.5%	25.5%	0.0%	100.0%	87.4%	12.6%	0.0%	100.0%	- % of Row
	67.5%	71.0%	60.0%	68.5%	52.1%	62.5%	***.*%	54.4%	95.0%	91.7%	***.*%	94.6%	- % of Col
Full-time	190	50	1	241	50	8	0	58	0	0	0	0	
	78.8%	20.7%	0.4%	100.0%	86.2%	13.8%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	
	19.4%	13.4%	20.0%	17.8%	35.7%	20.0%	***.*%	32.2%	0.0%	0.0%	***.*%	0.0%	
Part-time	120	56	1	177	17	7	0	24	2	1	0	3	
	67.8%	31.6%	0.6%	100.0%	70.8%	29.2%	0.0%	100.0%	66.7%	33.3%	0.0%	100.0%	
	12.3%	15.0%	20.0%	13.0%	12.1%	17.5%	***.*%	13.3%	2.5%	8.3%	***.*%	3.3%	
No Response	8	2	0	10	0	0	0	0	2	0	0	2	
	80.0%	20.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	100.0%	0.0%	0.0%	100.0%	
	0.8%	0.5%	0.0%	0.7%	0.0%	0.0%	***.*%	0.0%	2.5%	0.0%	***.*%	2.2%	
ALL	979	373	5	1,357	140	40	0	180	80	12	0	92	
	72.1%	27.5%	0.4%	100.0%	77.8%	22.2%	0.0%	100.0%	87.0%	13.0%	0.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%	

TABLE B-8a

CHEMICAL ENGINEERING GRADUATES
according to EMPLOYMENT STATUS, DEGREE, and CITIZENSHIP
1985 Starting Salary Survey

	Bachelors					Masters					Doctorate					
	CITIZENSHIP															
EMPLOYMENT STATUS	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	
Unemployed and seeking employment	233	11	4	1	2	8	1	2	6	0	0	0	2	1	0	- Count
	92.8%	4.4%	1.6%	0.4%	0.8%	47.1%	5.9%	11.8%	35.3%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	- % of Row
	18.0%	31.4%	25.0%	10.0%	100.0%	5.6%	14.3%	33.3%	26.1%	***.*%	0.0%	0.0%	22.2%	5.3%	***.*%	- % of Col
Unemployed and not seeking employment	122	6	1	3	0	9	0	0	6	0	0	0	0	1	0	
	92.4%	4.5%	0.8%	2.3%	0.0%	60.0%	0.0%	0.0%	40.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	
	9.4%	17.1%	6.3%	30.0%	0.0%	6.3%	0.0%	0.0%	26.1%	***.*%	0.0%	0.0%	0.0%	5.3%	***.*%	
Full-time in chemistry	625	12	6	2	0	81	4	4	2	0	49	7	7	12	0	
	96.9%	1.9%	0.9%	0.3%	0.0%	89.0%	4.4%	4.4%	2.2%	0.0%	65.3%	9.3%	9.3%	16.0%	0.0%	
	48.3%	34.3%	37.5%	20.0%	0.0%	56.3%	57.1%	66.7%	8.7%	***.*%	87.5%	87.5%	77.8%	63.2%	***.*%	
Full-time in non-chemistry	198	2	3	1	0	14	0	0	0	0	4	0	0	1	0	
	97.1%	1.0%	1.5%	0.5%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	80.0%	0.0%	0.0%	20.0%	0.0%	
	15.3%	5.7%	18.8%	10.0%	0.0%	9.7%	0.0%	0.0%	0.0%	***.*%	7.1%	0.0%	0.0%	5.3%	***.*%	
Assistantship, postdoctoral, or other fellowship	87	3	1	3	0	27	2	0	7	0	1	1	0	3	0	
	92.6%	3.2%	1.1%	3.2%	0.0%	75.0%	5.6%	0.0%	19.4%	0.0%	20.0%	20.0%	0.0%	60.0%	0.0%	
	6.7%	8.6%	6.3%	30.0%	0.0%	18.8%	28.6%	0.0%	30.4%	***.*%	1.8%	12.5%	0.0%	15.8%	***.*%	
No Response	29	1	1	0	0	5	0	0	2	0	2	0	0	1	0	
	93.5%	3.2%	3.2%	0.0%	0.0%	71.4%	0.0%	0.0%	28.6%	0.0%	66.7%	0.0%	0.0%	33.3%	0.0%	
	2.2%	2.9%	6.3%	0.0%	0.0%	3.5%	0.0%	0.0%	8.7%	***.*%	3.6%	0.0%	0.0%	5.3%	***.*%	
ALL	1,294	35	16	10	2	144	7	6	23	0	56	8	9	19	0	
	95.4%	2.6%	1.2%	0.7%	0.1%	80.0%	3.9%	3.3%	12.8%	0.0%	60.9%	8.7%	9.8%	20.7%	0.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	***.*%	

TABLE B-8b

CHEMICAL ENGINEERING GRADUATES
according to PLANS FOR FURTHER STUDIES IN FALL 1985, DEGREE, and CITIZENSHIP
1985 Starting Salary Survey

		Bachelors					Masters					Doctorate				
	CITIZENSHIP															
FURTHER STUDIES	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	U.S. Native	U.S. Naturalized	Permanent Resident	Other Visa	No Response	
No plans	901	17	7	3	1	93	2	3	0	0	54	8	8	17	0	- Count
	97.0%	1.8%	0.8%	0.3%	0.1%	94.9%	2.0%	3.1%	0.0%	0.0%	62.1%	9.2%	9.2%	19.5%	0.0%	- % of Row
	69.6%	48.6%	43.8%	30.0%	50.0%	64.6%	28.6%	50.0%	0.0%	***.*%	96.4%	100.0%	88.9%	89.5%	***.*%	- % of Col
Full-time	221	11	2	6	1	35	3	1	19	0	0	0	0	0	0	
	91.7%	4.6%	0.8%	2.5%	0.4%	60.3%	5.2%	1.7%	32.8%	0.0%	***.*%	***.*%	***.*%	***.*%	***.*%	
	17.1%	31.4%	12.5%	60.0%	50.0%	24.3%	42.9%	16.7%	82.6%	***.*%	0.0%	0.0%	0.0%	0.0%	***.*%	
Part-time	163	7	6	1	0	16	2	2	4	0	2	0	0	1	0	
	92.1%	4.0%	3.4%	0.6%	0.0%	66.7%	8.3%	8.3%	16.7%	0.0%	66.7%	0.0%	0.0%	33.3%	0.0%	
	12.6%	20.0%	37.5%	10.0%	0.0%	11.1%	28.6%	33.3%	17.4%	***.*%	3.6%	0.0%	0.0%	5.3%	***.*%	
No Response	9	0	1	0	0	0	0	0	0	0	0	0	1	1	0	
	90.0%	0.0%	10.0%	0.0%	0.0%	***.*%	***.*%	***.*%	***.*%	***.*%	0.0%	0.0%	50.0%	50.0%	0.0%	
	0.7%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	0.0%	0.0%	11.1%	5.3%	***.*%	
ALL	1,294	35	16	10	2	144	7	6	23	0	56	8	9	19	0	
	95.4%	2.6%	1.2%	0.7%	0.1%	80.0%	3.9%	3.3%	12.8%	0.0%	60.9%	8.7%	9.8%	20.7%	0.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	***.*%	

TABLE B-9a

CHEMICAL ENGINEERING GRADUATES
according to EMPLOYMENT STATUS, DEGREE, and ETHNICITY
1985 Starting Salary Survey

	DEGREE				
EMPLOYMENT STATUS	B.S.	M.S.	Ph.D.	No Response	
Unemployed and seeking employment	249	17	3	0	- Count
	92.6%	6.3%	1.1%	0.0%	- % of Row
	18.5%	9.6%	3.3%	0.0%	- % of Col
Unemployed and not seeking employment	131	15	1	0	
	89.1%	10.2%	0.7%	0.0%	
	9.7%	8.4%	1.1%	0.0%	
Full-time in chemistry	640	89	74	1	
	79.6%	11.1%	9.2%	0.1%	
	47.5%	50.0%	81.3%	50.0%	
Full-time in non-chemistry	203	14	5	1	
	91.0%	6.3%	2.2%	0.4%	
	15.1%	7.9%	5.5%	50.0%	
Assistantship, postdoctoral, or other fellowship	93	36	5	0	
	69.4%	26.9%	3.7%	0.0%	
	6.9%	20.2%	5.5%	0.0%	
No Response	30	7	3	0	
	75.0%	17.5%	7.5%	0.0%	
	2.2%	3.9%	3.3%	0.0%	
ALL	1,346	178	91	2	
	83.2%	11.0%	5.6%	0.1%	
	100.0%	100.0%	100.0%	100.0%	

TABLE B-9b

CHEMICAL ENGINEERING GRADUATES
according to PLANS FOR FURTHER STUDIES IN FALL 1985, DEGREE, and ETHNICITY
1985 Starting Salary Survey

	DEGREE				
FURTHER STUDIES	B.S.	M.S.	Ph.D.	No Response	
No plans	924	96	86	2	Count
	83.4%	8.7%	7.8%	0.2%	% of Row
	68.6%	53.9%	94.5%	100.0%	% of Col
Full-time	238	58	0	0	
	80.4%	19.6%	0.0%	0.0%	
	17.7%	32.6%	0.0%	0.0%	
Part-time	174	24	3	0	
	86.6%	11.9%	1.5%	0.0%	
	12.9%	13.5%	3.3%	0.0%	
No Response	10	0	2	0	
	83.3%	0.0%	16.7%	0.0%	
	0.7%	0.0%	2.2%	0.0%	
ALL	1,346	178	91	2	
	83.2%	11.0%	5.6%	0.1%	
	100.0%	100.0%	100.0%	100.0%	

TABLE C-1

CHEMISTS WHO PLAN PART-TIME STUDIES IN FALL 1985
according to FIELD OF ADVANCED STUDIES, DEGREE, and SEX
1985 Starting Salary Survey —

	Bachelors			Masters			Doctorate		
	SEX								
STUDY FIELD	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES
Chemistry	43	25	68	3	3	6	1	0	1 - Count
	63.2%	36.8%	100.0%	50.0%	50.0%	100.0%	100.0%	0.0%	100.0% - % of Row
	51.2%	43.9%	48.2%	50.0%	75.0%	60.0%	25.0%	0.0%	20.0% - % of Col
Other physical sciece	7	3	10	0	0	0	0	1	1
	70.0%	30.0%	100.0%	***.*%	***.*%	***.*%	0.0%	100.0%	100.0%
	8.3%	5.3%	7.1%	0.0%	0.0%	0.0	0.0%	100.0%	20.0%
Chemical engineerig	1	1	2	1	0	1	0	0	0
	50.0%	50.0%	100.0%	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%
	1.2%	1.8%	1.4%	16.7%	0.0%	10.0%	0.0%	0.0%	0.0%
Other engineering	7	5	12	0	0	0	0	0	0
	58.3%	41.7%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	8.3%	8.8%	8.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Biochemistry	3	6	9	0	0	0	1	0	1
	33.3%	66.7%	100.0%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%
	3.6%	10.5%	6.4%	0.0%	0.0%	0.0%	25.0%	0.0%	20.0%
Life science	0	0	0	0	0	0	1	0	1
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	20.0%
Medicine	2	2	4	0	0	0	0	0	0
	50.0%	50.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	2.4%	3.5%	2.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dentistry	0	0	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Pharmacy, pharmacology	2	2	4	1	0	1	0	0	0
	50.0%	50.0%	100.0%	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%
	2.4%	3.5%	2.8%	16.7%	0.0%	10.0%	0.0%	0.0%	0.0%
Business management	12	4	16	0	0	0	1	0	1
	75.0%	25.0%	100.0%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%
	14.3%	7.0%	11.3%	0.0%	0.0%	0.0%	25.0%	0.0%	20.0%
Education	2	5	7	1	1	2	0	0	0
	28.6%	71.4%	100.0%	50.0%	50.0%	100.0%	***.*%	***.*%	***.*
	2.4%	8.8%	5.0%	16.7%	25.0%	20.0%	0.0%	0.0%	0.0%
Law	1	0	1	0	0	0	0	0	0
	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	1.2%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Social science	1	0	1	0	0	0	0	0	0
	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	1.2%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	2	4	6	0	0	0	0	0	0
	33.3%	66.7%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	2.4%	7.0%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Response	1	0	1	0	0	0	0	0	0
	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	1.2%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ALL	84	57	141	6	4	10	4	1	5
	59.6%	40.4%	100.0%	60.0%	40.0%	100.0%	80.0%	20.0%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE C-2

BACHELORS CHEMISTRY GRADUATES WHO PLAN PART-TIME STUDIES IN FALL 1985
according to FIELD OF ADVANCED STUDIES and whether graduate completed
ACS APPROVED CURRICULUM
1985 Starting Salary Survey

	CURRICULUM APPROVED?			
STUDY FIELD	No	Yes	ALL	
Chemistry	26	42	68	- Count
	38.2%	61.8%	100.0%	- % of Row
	43.3%	51.9%	48.2%	- % of Col
Other physical science	6	4	10	
	60.0%	40.0%	100.0%	
	10.0%	4.9%	7.1%	
Chemical engineering	1	1	2	
	50.0%	50.0%	100.0%	
	1.7%	1.2%	1.4%	
Other engineering	3	9	12	
	25.0%	75.0%	100.0%	
	5.0%	11.1%	8.5%	
Biochemistry	5	4	9	
	55.6%	44.4%	100.0%	
	8.3%	4.9%	6.4%	
Life science	0	0	0	
	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	
Medicine	3	1	4	
	75.0%	25.0%	100.0%	
	5.0%	1.2%	2.8%	
Dentistry	0	0	0	
	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	
Pharmacy, pharmacology	2	2	4	
	50.0%	50.0%	100.0%	
	3.3%	2.5%	2.8%	
Business management	9	7	16	
	56.3%	43.8%	100.0%	
	15.0%	8.6%	11.3%	
Education	1	6	7	
	14.3%	85.7%	100.0%	
	1.7%	7.4%	5.0%	
Law	0	1	1	
	0.0%	100.0%	100.0%	
	0.0%	1.2%	0.7%	
Social science	1	0	1	
	100.0%	0.0%	100.0%	
	1.7%	0.0%	0.7%	
Other	3	3	6	
	50.0%	50.0%	100.0%	
	5.0%	3.7%	4.3%	
No Response	0	1	1	
	0.0%	100.0%	100.0%	
	0.0%	1.2%	0.7%	
ALL	60	81	141	
	42.6%	57.4%	100.0%	
	100.0%	100.0%	100.0%	

TABLE C-3

CHEMICAL ENGINEERING GRADUATES WHO PLAN PART-TIME STUDIES IN FALL 1985
according to FIELD OF ADVANCED STUDIES, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters			
	SEX							
STUDY FIELD	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES
Chemistry	3 50.0% 2.5%	3 50.0% 5.4%	0 0.0% 0.0%	6 100.0% 3.4%	1 100.0% 5.9%	0 0.0% 0.0%	0 0.0% ***.*%	1 100.0% 4.2%
Other physical science	3 100.0% 2.5%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 1.7%	0 0.0% 0.0%	2 100.0% 28.6%	0 0.0% ***.*%	2 100.0% 8.3%
Chemical engineering	21 53.8% 17.5%	17 43.6% 30.4%	1 2.6% 100.0%	39 100.0% 22.0%	8 80.0% 47.1%	2 20.0% 28.6%	0 0.0% ***.*%	10 100.0% 41.7%
Other engineering	23 76.7% 19.2%	7 23.3% 12.5%	0 0.0% 0.0%	30 100.0% 16.9%	1 25.0% 5.9%	3 75.0% 42.9%	0 0.0% ***.*%	4 100.0% 16.7%
Biochemistry	3 100.0% 2.5%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 1.7%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
Life science	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	1 100.0% 5.9%	0 0.0% 0.0%	0 0.0% ***.*%	1 100.0% 4.2%
Medicine	0 0.0% 0.0%	1 100.0% 1.8%	0 0.0% 0.0%	1 100.0% 0.6%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
Dentistry	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
Pharmacy, pharmacology	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
Business management	49 70.0% 40.8%	21 30.0% 37.5%	0 0.0% 0.0%	70 100.0% 39.5%	5 100.0% 29.4%	0 0.0% 0.0%	0 0.0% ***.*%	5 100.0% 20.8%
Education	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
Law	2 100.0% 1.7%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 1.1%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
Social science	1 50.0% 0.8%	1 50.0% 1.8%	0 0.0% 0.0%	2 100.0% 1.1%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
Other	13 72.2% 10.8%	5 27.8% 8.9%	0 0.0% 0.0%	18 100.0% 10.2%	1 100.0% 5.9%	0 0.0% 0.0%	0 0.0% ***.*%	1 100.0% 4.2%
No Response	2 66.7% 1.7%	1 33.3% 1.8%	0 0.0% 0.0%	3 100.0% 1.7%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
ALL	120 67.8% 100.0%	56 31.6% 100.0%	1 0.6% 100.0%	177 100.0% 100.0%	17 70.8% 100.0%	7 29.2% 100.0%	0 0.0% ***.*%	24 100.0% 100.0%

Count
% of Row
% of Col

TABLE C-4

CHEMISTRY GRADUATES WHO PLAN FULL-TIME STUDIES IN FALL 1985
according to FIELD OF ADVANCED STUDIES, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters				Doctorate			
	SEX											
STUDY FIELD	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES
Chemistry	196	105	1	302	48	12	0	60	11	1	0	12 - Count
	64.9%	34.8%	0.3%	100.0%	80.0%	20.0%	0.0%	100.0%	91.7%	8.3%	0.0%	100.0% - % of Row
	45.2%	41.0%	100.0%	43.7%	92.3%	63.2%	***.*%	84.5%	78.6%	50.0%	***.*%	75.0% - % of Col
Other physical science	5	7	0	12	0	1	0	1	0	0	0	0
	41.7%	58.3%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	1.2%	2.7%	0.0%	1.7%	0.0%	5.3%	***.*%	1.4%	0.0%	0.0%	***.*%	0.0%
Chemical engineering	9	4	0	13	0	0	0	0	0	0	0	0
	69.2%	30.8%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	2.1%	1.6%	0.0%	1.9%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
Other engineering	5	2	0	7	0	1	0	1	1	0	0	1
	71.4%	28.6%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	1.2%	0.8%	0.0%	1.0%	0.0%	5.3%	***.*%	1.4%	7.1%	0.0%	***.*%	6.3%
Biochemistry	18	21	0	39	0	1	0	1	2	0	0	2
	46.2%	53.8%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	4.1%	8.2%	0.0%	5.6%	0.0%	5.3%	***.*%	1.4%	14.3%	0.0%	***.*%	12.5%
Life science	3	2	0	5	1	0	0	1	0	0	0	0
	60.0%	40.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	0.7%	0.8%	0.0%	0.7%	1.9%	0.0%	***.*%	1.4%	0.0%	0.0%	***.*%	0.0%
Medicine	135	73	0	208	2	4	0	6	0	1	0	1
	64.9%	35.1%	0.0%	100.0%	33.3%	66.7%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	31.1%	28.5%	0.0%	30.1%	3.8%	21.1%	***.*%	8.5%	0.0%	50.0%	***.*%	6.3%
Dentistry	16	6	0	22	0	0	0	0	0	0	0	0
	72.7%	27.3%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	3.7%	2.3%	0.0%	3.2%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
Pharmacy, pharmacology	7	6	0	13	1	0	0	1	0	0	0	0
	53.8%	46.2%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	1.6%	2.3%	0.0%	1.9%	1.9%	0.0%	***.*%	1.4%	0.0%	0.0%	***.*%	0.0%
Business management	12	5	0	17	0	0	0	0	0	0	0	0
	70.6%	29.4%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	2.8%	2.0%	0.0%	2.5%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
Education	4	6	0	10	0	0	0	0	0	0	0	0
	40.0%	60.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.9%	2.3%	0.0%	1.4%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
Law	6	1	0	7	0	0	0	0	0	0	0	0
	85.7%	14.3%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	1.4%	0.4%	0.0%	1.0%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
Social science	3	0	0	3	0	0	0	0	0	0	0	0
	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.7%	0.0%	0.0%	0.4%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
Other	7	14	0	21	0	0	0	0	0	0	0	0
	33.3%	66.7%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	1.6%	5.5%	0.0%	3.0%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
No Response	8	4	0	12	0	0	0	0	0	0	0	0
	66.7%	33.3%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	1.8%	1.6%	0.0%	1.7%	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	***.*%	0.0%
ALL	434	256	1	691	52	19	0	71	14	2	0	16
	62.8%	37.0%	0.1%	100.0%	73.2%	26.8%	0.0%	100.0%	87.5%	12.5%	0.0%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%

TABLE C-5

BACHELORS CHEMISTRY GRADUATES WHO PLAN FULL-TIME STUDIES IN FALL 1985
according to FIELD OF ADVANCED STUDIES and whether graduate completed
ACS APPROVED CURRICULUM
1985 Starting Salary Survey

	CURRICULUM APPROVED?		
STUDY FIELD	No	Yes	ALL
Chemistry	80	222	302 - Count
	26.5%	73.5%	100.0% - % of Row
	23.1%	64.3%	43.7% - % of Col
Other physical science	7	5	12
	58.3%	41.7%	100.0%
	2.0%	1.4%	1.7%
Chemical engineering	5	8	13
	38.5%	61.5%	100.0%
	1.4%	2.3%	1.9%
Other engineering	2	5	7
	28.6%	71.4%	100.0%
	0.6%	1.4%	1.0%
Biochemistry	22	17	39
	56.4%	43.6%	100.0%
	6.4%	4.9%	5.6%
Life science	2	3	5
	40.0%	60.0%	100.0%
	0.6%	0.9%	0.7%
Medicine	153	55	208
	73.6%	26.4%	100.0%
	44.2%	15.9%	30.1%
Dentistry	18	4	22
	81.8%	18.2%	100.0%
	5.2%	1.2%	3.2%
Pharmacy, pharmacology	8	5	13
	61.5%	38.5%	100.0%
	2.3%	1.4%	1.9%
Business management	13	4	17
	76.5%	23.5%	100.0%
	3.8%	1.2%	2.5%
Education	8	2	10
	80.0%	20.0%	100.0%
	2.3%	0.6%	1.4%
Law	6	1	7
	85.7%	14.3%	100.0%
	1.7%	0.3%	1.0%
Social science	2	1	3
	66.7%	33.3%	100.0%
	0.6%	0.3%	0.4%
Other	16	5	21
	76.2%	23.8%	100.0%
	4.6%	1.4%	3.0%
No Response	4	8	12
	33.3%	66.7%	100.0%
	1.2%	2.3%	1.7%
ALL	346	345	691
	50.1%	49.9%	100.0%
	100.0%	100.0%	100.0%

TABLE C-6

CHEMICAL ENGINEERING GRADUATES WHO PLAN FULL-TIME STUDIES IN FALL 1985
according to FIELD OF ADVANCED STUDIES, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters			
	SEX							
STUDY FIELD	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES
Chemistry	10	1	0	11	0	0	0	0 - Count
	90.9%	9.1%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*% - % of Row
	5.3%	2.0%	0.0%	4.6%	0.0%	0.0%	***.*%	0.0% - % of Col
Other physical science	3	1	0	4	0	0	0	0
	75.0%	25.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	1.6%	2.0%	0.0%	1.7%	0.0%	0.0%	***.*%	0.0%
Chemical engineering	94	31	0	125	41	7	0	48
	75.2%	24.8%	0.0%	100.0%	85.4%	14.6%	0.0%	100.0%
	49.5%	62.0%	0.0%	51.9%	82.0%	87.5%	***.*%	82.8%
Other engineering	26	6	1	33	5	0	0	5
	78.8%	18.2%	3.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	13.7%	12.0%	100.0%	13.7%	10.0%	0.0%	***.*%	8.6%
Biochemistry	0	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	0.0%
Life science	1	0	0	1	0	0	0	0
	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	0.5%	0.0%	0.0%	0.4%	0.0%	0.0%	***.*%	0.0%
Medicine	15	3	0	18	2	0	0	2
	83.3%	16.7%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	7.9%	6.0%	0.0%	7.5%	4.0%	0.0%	***.*%	3.4%
Dentistry	1	0	0	1	0	0	0	0
	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	0.5%	0.0%	0.0%	0.4%	0.0%	0.0%	***.*%	0.0%
Pharmacy, pharmacology	0	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	0.0%
Business management	17	3	0	20	0	1	0	1
	85.0%	15.0%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	8.9%	6.0%	0.0%	8.3%	0.0%	12.5%	***.*%	1.7%
Education	1	2	0	3	0	0	0	0
	33.3%	66.7%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	0.5%	4.0%	0.0%	1.2%	0.0%	0.0%	***.*%	0.0%
Law	11	0	0	11	0	0	0	0
	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	5.8%	0.0%	0.0%	4.6%	0.0%	0.0%	***.*%	0.0%
Social science	0	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	***.*%	0.0%
Other	7	0	0	7	0	0	0	0
	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%
	3.7%	0.0%	0.0%	2.9%	0.0%	0.0%	***.*%	0.0%
No Response	4	3	0	7	2	0	0	2
	57.1%	42.9%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	2.1%	6.0%	0.0%	2.9%	4.0%	0.0%	***.*%	3.4%
ALL	190	50	1	241	50	8	0	58
	78.8%	20.7%	0.4%	100.0%	86.2%	13.8%	0.0%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%

TABLE C-7

CHEMISTRY BACHELOR'S DEGREE RECIPIENTS NOT EMPLOYED and NOT SEEKING EMPLOYMENT
according to SEX and PLANS FOR FURTHER STUDIES
1985 Starting Salary Survey

	SEX			
FURTHER STUDIES	Men	Women	BOTH SEXES	
No plans	14	9	23	- Count
	60.9%	39.1%	100.0%	- % of Row
	5.4%	6.5%	5.8%	- % of Col
Full-time	239	123	362	
	66.0%	34.0%	100.0%	
	92.3%	88.5%	91.0%	
Part-time	5	5	10	
	50.0%	50.0%	100.0%	
	1.9%	3.6%	2.5%	
No Response	1	2	3	
	33.3%	66.7%	100.0%	
	0.4%	1.4%	0.8%	
ALL	259	139	398	
	65.1%	34.9%	100.0%	
	100.0%	100.0%	100.0%	

TABLE C-8

CHEMICAL ENGINEERING BACHELOR'S DEGREE RECIPIENTS NOT EMPLOYED
and NOT SEEKING EMPLOYMENT
according to SEX and PLANS FOR FURTHER STUDIES
1985 Starting Salary Survey

	SEX			
FURTHER STUDIES	Men	Women	No Response	BOTH SEXES
No plans	2	0	1	3 - Count
	66.7%	0.0%	33.3%	100.0% - % of Row
	1.9%	0.0%	100.0%	2.3% - % of Col
Full-time	100	22	0	122
	82.0%	18.0%	0.0%	100.0%
	94.3%	88.0%	0.0%	92.4%
Part-time	4	3	0	7
	57.1%	42.9%	0.0%	100.0%
	3.8%	12.0%	0.0%	5.3%
No Response	0	0	0	0
	***.*%	***.*%	***.*%	***.*%
	0.0%	0.0%	0.0%	0.0%
ALL	106	25	1	132
	80.3%	18.9%	0.8%	100.0%
	100.0%	100.0%	100.0%	100.0%

TABLE D-1

CHEMISTRY and CHEMICAL ENGINEERING BACHELOR'S DEGREE RECIPIENTS
according to AGE and SEX
1985 Starting Salary Survey

	Chemistry				Chemical Engineering			
	SEX							
AGE	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES
20	2	6	0	8	3	2	0	5 - Count
	25.0%	75.0%	0.0%	100.0%	60.0%	40.0%	0.0%	100.0% - % of Row
	0.2%	1.0%	0.0%	0.6%	0.3%	0.5%	0.0%	0.4% - % of Col
21	108	81	0	189	90	48	0	138
	57.1%	42.9%	0.0%	100.0%	65.2%	34.8%	0.0%	100.0%
	12.6%	14.2%	0.0%	13.2%	9.2%	12.9%	0.0%	10.2%
22	421	306	0	727	371	167	1	539
	57.9%	42.1%	0.0%	100.0%	68.8%	31.0%	0.2%	100.0%
	49.1%	53.5%	0.0%	50.8%	37.9%	44.8%	20.0%	39.7%
23	133	75	0	208	309	105	2	416
	63.9%	36.1%	0.0%	100.0%	74.3%	25.2%	0.5%	100.0%
	15.5%	13.1%	0.0%	14.5%	31.6%	28.2%	40.0%	30.7%
24	50	24	0	74	97	31	0	128
	67.6%	32.4%	0.0%	100.0%	75.8%	24.2%	0.0%	100.0%
	5.8%	4.2%	0.0%	5.2%	9.9%	8.3%	0.0%	9.4%
25	31	21	0	52	33	9	1	43
	59.6%	40.4%	0.0%	100.0%	76.7%	20.9%	2.3%	100.0%
	3.6%	3.7%	0.0%	3.6%	3.4%	2.4%	20.0%	3.2%
26	24	12	0	36	23	1	0	24
	66.7%	33.3%	0.0%	100.0%	95.8%	4.2%	0.0%	100.0%
	2.8%	2.1%	0.0%	2.5%	2.3%	0.3%	0.0%	1.8%
27	14	5	0	19	18	1	0	19
	73.7%	26.3%	0.0%	100.0%	94.7%	5.3%	0.0%	100.0%
	1.6%	0.9%	0.0%	1.3%	1.8%	0.3%	0.0%	1.4%
28	13	6	0	19	7	2	0	9
	68.4%	31.6%	0.0%	100.0%	77.8%	22.2%	0.0%	100.0%
	1.5%	1.0%	0.0%	1.3%	0.7%	0.5%	0.0%	0.7%
29	17	7	0	24	10	0	0	10
	70.8%	29.2%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	2.0%	1.2%	0.0%	1.7%	1.0%	0.0%	0.0%	0.7%
30-34	25	15	0	40	10	5	0	15
	62.5%	37.5%	0.0%	100.0%	66.7%	33.3%	0.0%	100.0%
	2.9%	2.6%	0.0%	2.8%	1.0%	1.3%	0.0%	1.1%
35-39	12	4	0	16	1	1	0	2
	75.0%	25.0%	0.0%	100.0%	50.0%	50.0%	0.0%	100.0%
	1.4%	0.7%	0.0%	1.1%	0.1%	0.3%	0.0%	0.1%
40-49	2	7	0	9	0	1	0	1
	22.2%	77.8%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
	0.2%	1.2%	0.0%	0.6%	0.0%	0.3%	0.0%	0.1%
50-64	0	0	0	0	0	0	0	0
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
No Response	6	3	2	11	7	0	1	8
	54.5%	27.3%	18.2%	100.0%	87.5%	0.0%	12.5%	100.0%
	0.7%	0.5%	100.0%	0.8%	0.7%	0.0%	20.0%	0.6%
ALL AGES	858	572	2	1,432	979	373	5	1,357
	59.9%	39.9%	0.1%	100.0%	72.1%	27.5%	0.4%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE D-2

CHEMISTRY and CHEMICAL ENGINEERING MASTER'S DEGREE RECIPIENTS
according to AGE and SEX
1985 Starting Salary Survey

	Chemistry				Chemical Engineering			
	SEX							
AGE	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES
21	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%	2 100.0% 1.4%	0 0.0% 0.0%	0 0.0% ***.*%	2 - Count 100.0% - % of Row 1.1% - % of Col
22	0 0.0% 0.0%	1 100.0% 1.7%	0 0.0% ***.*%	1 100.0% 0.5%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
23	3 75.0% 2.4%	1 25.0% 1.7%	0 0.0% ***.*%	4 100.0% 2.2%	13 72.2% 9.3%	5 27.8% 12.5%	0 0.0% ***.*%	18 100.0% 10.0%
24	20 69.0% 15.7%	9 31.0% 15.3%	0 0.0% ***.*%	29 100.0% 15.6%	25 86.2% 17.9%	4 13.8% 10.0%	0 0.0% ***.*%	29 100.0% 16.1%
25	28 65.1% 22.0%	15 34.9% 25.4%	0 0.0% ***.*%	43 100.0% 23.1%	31 83.8% 22.1%	6 16.2% 15.0%	0 0.0% ***.*%	37 100.0% 20.6%
26	16 84.2% 12.6%	3 15.8% 5.1%	0 0.0% ***.*%	19 100.0% 10.2%	21 67.7% 15.0%	10 32.3% 25.0%	0 0.0% ***.*%	31 100.0% 17.2%
27	13 59.1% 10.2%	9 40.9% 15.3%	0 0.0% ***.*%	22 100.0% 11.8%	15 78.9% 10.7%	4 21.1% 10.0%	0 0.0% ***.*%	19 100.0% 10.6%
28	8 57.1% 6.3%	6 42.9% 10.2%	0 0.0% ***.*%	14 100.0% 7.5%	9 69.2% 6.4%	4 30.8% 10.0%	0 0.0% ***.*%	13 100.0% 7.2%
29	5 41.7% 3.9%	7 58.3% 11.9%	0 0.0% ***.*%	12 100.0% 6.5%	8 88.9% 5.7%	1 11.1% 2.5%	0 0.0% ***.*%	9 100.0% 5.0%
30-34	21 77.8% 16.5%	6 22.2% 10.2%	0 0.0% ***.*%	27 100.0% 14.5%	12 70.6% 8.6%	5 29.4% 12.5%	0 0.0% ***.*%	17 100.0% 9.4%
35-39	7 87.5% 5.5%	1 12.5% 1.7%	0 0.0% ***.*%	8 100.0% 4.3%	3 75.0% 2.1%	1 25.0% 2.5%	0 0.0% ***.*%	4 100.0% 2.2%
40-49	2 66.7% 1.6%	1 33.3% 1.7%	0 0.0% ***.*%	3 100.0% 1.6%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
50-64	1 100.0% 0.8%	0 0.0% 0.0%	0 0.0% ***.*%	1 100.0% 0.5%	0 ***.*% 0.0%	0 ***.*% 0.0%	0 ***.*% ***.*%	0 ***.*% 0.0%
No Response	3 100.0% 2.4%	0 0.0% 0.0%	0 0.0% ***.*%	3 100.0% 1.6%	1 100.0% 0.7%	0 0.0% 0.0%	0 0.0% ***.*%	1 100.0% 0.6%
ALL AGES	127 68.3% 100.0%	[illegible] [illegible] 100.0%	0 0.0% ***.*%	186 100.0% 100.0%	140 77.8% 100.0%	40 22.2% 100.0%	0 0.0% ***.*%	180 100.0% 100.0%

TABLE D-3

CHEMISTRY and CHEMICAL ENGINEERING DOCTORATE'S DEGREE RECIPIENTS
according to AGE and SEX
1985 Starting Salary Survey

	Chemistry				Chemical Engineering			
	SEX							
AGE	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES
24	1	0	0	1	1	0	0	1 - Count
	100.0%	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0% - % of Row
	0.5%	0.0%	***.*%	0.4%	1.3%	0.0%	***.*%	1.1% - % of Col
25	3	1	0	4	1	1	0	2
	75.0%	25.0%	0.0%	100.0%	50.0%	50.0%	0.0%	100.0%
	1.5%	2.1%	***.*%	1.6%	1.3%	8.3%	***.*%	2.2%
26	7	4	0	11	7	0	0	7
	63.6%	36.4%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	3.5%	8.5%	***.*%	4.5%	8.8%	0.0%	***.*%	7.6%
27	47	9	0	56	10	4	0	14
	83.9%	16.1%	0.0%	100.0%	71.4%	28.6%	0.0%	100.0%
	23.7%	19.1%	***.*%	22.9%	12.5%	33.3%	***.*%	15.2%
28	47	10	0	57	16	2	0	18
	82.5%	17.5%	0.0%	100.0%	88.9%	11.1%	0.0%	100.0%
	23.7%	21.3%	***.*%	23.3%	20.0%	16.7%	***.*%	19.6%
29	29	5	0	34	16	2	0	18
	85.3%	14.7%	0.0%	100.0%	88.9%	11.1%	0.0%	100.0%
	14.6%	10.6%	***.*%	13.9%	20.0%	16.7%	***.*%	19.6%
30-34	51	11	0	62	23	3	0	26
	82.3%	17.7%	0.0%	100.0%	88.5%	11.5%	0.0%	100.0%
	25.8%	23.4%	***.*%	25.3%	28.8%	25.0%	***.*%	28.3%
35-39	10	2	0	12	4	0	0	4
	83.3%	16.7%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	5.1%	4.3%	***.*%	4.9%	5.0%	0.0%	***.*%	4.3%
40-49	1	3	0	4	1	0	0	1
	25.0%	75.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	0.5%	6.4%	***.*%	1.6%	1.3%	0.0%	***.*%	1.1%
No Response	2	2	0	4	1	0	0	1
	50.0%	50.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%
	1.0%	4.3%	***.*%	1.6%	1.3%	0.0%	***.*%	1.1%
ALL AGES	198	47	0	245	80	12	0	92
	80.8%	19.2%	0.0%	100.0%	87.0%	13.0%	0.0%	100.0%
	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%

TABLE D-4

CHEMISTRY POSTDOCTORAL RECIPIENTS
according to AGE and SEX
1985 Starting Salary Survey

AGE	SEX: Men	SEX: Women	BOTH SEXES	
25	2	0	2	- Count
	100.0%	0.0%	100.0%	- % of Row
	3.1%	0.0%	2.7%	- % of Col
26	2	2	4	
	50.0%	50.0%	100.0%	
	3.1%	18.2%	5.3%	
27	16	1	17	
	94.1%	5.9%	100.0%	
	25.0%	9.1%	22.7%	
28	12	1	13	
	92.3%	7.7%	100.0%	
	18.8%	9.1%	17.3%	
29	14	2	16	
	87.5%	12.5%	100.0%	
	21.9%	18.2%	21.3%	
30-34	13	3	16	
	81.3%	18.8%	100.0%	
	20.3%	27.3%	21.3%	
35-39	3	0	3	
	100.0%	0.0%	100.0%	
	4.7%	0.0%	4.0%	
No Response	2	2	4	
	50.0%	50.0%	100.0%	
	3.1%	18.2%	5.3%	
ALL AGES	64	11	75	
	85.3%	14.7%	100.0%	
	100.0%	100.0%	100.0%	

TABLE E-1

FULL-TIME EMPLOYED INEXPERIENCED CHEMISTS
according to NUMBER of JOB OFFERS, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors			Masters			Doctorate			
	SEX									
NUMBER OF JOB OFFERS	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	
1	64	65	129	15	10	25	35	8	43	- Count
	49.6%	50.4%	100.0%	60.0%	40.0%	100.0%	81.4%	18.6%	100.0%	- % of Row
	39.8%	46.1%	42.7%	55.6%	55.6%	55.6%	45.5%	50.0%	46.2%	- % of Col
2	56	40	96	8	2	10	18	4	22	
	58.3%	41.7%	100.0%	80.0%	20.0%	100.0%	81.8%	18.2%	100.0%	
	34.8%	28.4%	31.8%	29.6%	11.1%	22.2%	23.4%	25.0%	23.7%	
3	26	27	53	3	3	6	13	3	16	
	49.1%	50.9%	100.0%	50.0%	50.0%	100.0%	81.3%	18.8%	100.0%	
	16.1%	19.1%	17.5%	11.1%	16.7%	13.3%	16.9%	18.8%	17.2%	
4	12	7	19	1	3	4	3	0	3	
	63.2%	36.8%	100.0%	25.0%	75.0%	100.0%	100.0%	0.0%	100.0%	
	7.5%	5.0%	6.3%	3.7%	16.7%	8.9%	3.9%	0.0%	3.2%	
5	2	0	2	0	0	0	4	1	5	
	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%	80.0%	20.0%	100.0%	
	1.2%	0.0%	0.7%	0.0%	0.0%	0.0%	5.2%	6.3%	5.4%	
6-7	1	2	3	0	0	0	1	0	1	
	33.3%	66.7%	100.0%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%	
	0.6%	1.4%	1.0%	0.0%	0.0%	0.0%	1.3%	0.0%	1.1%	
8-9	0	0	0	0	0	0	1	0	1	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	1.1%	
10+	0	0	0	0	0	0	2	0	2	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	0.0%	2.2%	
ALL	161	141	302	27	18	45	77	16	93	
	53.3%	46.7%	100.0%	60.0%	40.0%	100.0%	82.8%	17.2%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE E-2

FULL-TIME EMPLOYED EXPERIENCED CHEMISTS
according to NUMBER of JOB OFFERS, DEGREE and SEX
1985 Starting Salary Survey

NUMBER OF JOB OFFERS	Bachelors			Masters			Doctorate			
	SEX									
	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	
1	44	20	64	13	6	19	12	3	15	- Count
	68.8%	31.3%	100.0%	68.4%	31.6%	100.0%	80.0%	20.0%	100.0%	- % of Row
	62.0%	47.6%	56.6%	41.9%	54.5%	45.2%	35.3%	25.0%	32.6%	- % of Col
2	16	15	31	9	2	11	14	3	17	
	51.6%	48.4%	100.0%	81.8%	18.2%	100.0%	82.4%	17.6%	100.0%	
	22.5%	35.7%	27.4%	29.0%	18.2%	26.2%	41.2%	25.0%	37.0%	
3	6	7	13	6	2	8	3	0	3	
	46.2%	53.8%	100.0%	75.0%	25.0%	100.0%	100.0%	0.0%	100.0%	
	8.5%	16.7%	11.5%	19.4%	18.2%	19.0%	8.8%	0.0%	6.5%	
4	4	0	4	1	0	1	4	2	6	
	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%	66.7%	33.3%	100.0%	
	5.6%	0.0%	3.5%	3.2%	0.0%	2.4%	11.8%	16.7%	13.0%	
5	0	0	0				1	0	1	
	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%	
	0.0%	0.0%	0.0%	3.2%	0.0%	2.4%	2.9%	0.0%	2.2%	
6-7	1	0	1	1	1	2	0	3	3	
	100.0%	0.0%	100.0%	50.0%	50.0%	100.0%	0.0%	100.0%	100.0%	
	1.4%	0.0%	0.9%	3.2%	9.1%	4.8%	0.0%	25.0%	6.5%	
8-9	0	0	0	0	0	0	0	1	1	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	0.0%	100.0%	100.0%	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	2.2%	
10+	0	0	0	0	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
ALL	71	42	113	31	11	42	34	12	46	
	62.8%	37.2%	100.0%	73.8%	26.2%	100.0%	73.9%	26.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE E-3

FULL-TIME EMPLOYED INEXPERIENCED CHEMICAL ENGINEERS
according to NUMBER of JOB OFFERS, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors			Masters			Doctorate			
	SEX									
NUMBER OF JOB OFFERS	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	
1	181	69	250	15	4	19	8	3	11	- Count
	72.4%	27.6%	100.0%	78.9%	21.1%	100.0%	72.7%	27.3%	100.0%	- % of Row
	52.8%	47.3%	51.1%	35.7%	57.1%	38.8%	21.1%	33.3%	23.4%	- % of Col
2	86	33	119	13	0	13	11	2	13	
	72.3%	27.7%	100.0%	100.0%	0.0%	100.0%	84.6%	15.4%	100.0%	
	25.1%	22.6%	24.3%	31.0%	0.0%	26.5%	28.9%	22.2%	27.7%	
3	49	22	71	10	3	13	6	1	7	
	69.0%	31.0%	100.0%	76.9%	23.1%	100.0%	85.7%	14.3%	100.0%	
	14.3%	15.1%	14.5%	23.8%	42.9%	26.5%	15.8%	11.1%	14.9%	
4	13	11	24	2	0	2	4	1	5	
	54.2%	45.8%	100.0%	100.0%	0.0%	100.0%	80.0%	20.0%	100.0%	
	3.8%	7.5%	4.9%	4.8%	0.0%	4.1%	10.5%	11.1%	10.6%	
5	7	7	14	0	0	0	4	0	4	
	50.0%	50.0%	100.0%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%	
	2.0%	4.8%	2.9%	0.0%	0.0%	0.0%	10.5%	0.0%	8.5%	
6-7	5	3	8	1	0	1	2	2	4	
	62.5%	37.5%	100.0%	100.0%	0.0%	100.0%	50.0%	50.0%	100.0%	
	1.5%	2.1%	1.6%	2.4%	0.0%	2.0%	5.3%	22.2%	8.5%	
8-9	1	0	1	0	0	0	1	0	1	
	100.0%	0.0%	100.0%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%	
	0.3%	0.0%	0.2%	0.0%	0.0%	0.0%	2.6%	0.0%	2.1%	
10+	1	1	2	1	0	1	2	0	2	
	50.0%	50.0%	100.0%	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%	
	0.3%	0.7%	0.4%	2.4%	0.0%	2.0%	5.3%	0.0%	4.3%	
ALL	343	146	489	42	7	49	38	9	47	
	70.1%	29.9%	100.0%	85.7%	14.3%	100.0%	80.9%	19.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE E-4

FULL-TIME EMPLOYED EXPERIENCED CHEMICAL ENGINEERS
according to NUMBER of JOB OFFERS, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters				Doctorate				
	SEX												
NUMBER OF JOB OFFERS	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	
1	45	19	1	65	17	6	0	23	8	2	0	10	- Count
	69.2%	29.2%	1.5%	100.0%	73.9%	26.1%	0.0%	100.0%	80.0%	20.0%	0.0%	100.0%	- % of Row
	42.9%	38.8%	100.0%	41.9%	58.6%	46.2%	***.*%	54.8%	30.8%	100.0%	***.*%	35.7%	- % of Col
2	26	15	0	41	2	2	0	4	8	0	0	8	
	63.4%	36.6%	0.0%	100.0%	50.0%	50.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	24.8%	30.6%	0.0%	26.5%	6.9%	15.4%	***.*%	9.5%	30.8%	0.0%	***.*%	28.6%	
3	17	7	0	24	3	3	0	6	2	0	0	2	
	70.8%	29.2%	0.0%	100.0%	50.0%	50.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	16.2%	14.3%	0.0%	15.5%	10.3%	23.1%	***.*%	14.3%	7.7%	0.0%	***.*%	7.1%	
4	5	3	0	8	2	1	0	3	5	0	0	5	
	62.5%	37.5%	0.0%	100.0%	66.7%	33.3%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	4.8%	6.1%	0.0%	5.2%	6.9%	7.7%	***.*%	7.1%	19.2%	0.0%	***.*%	17.9%	
5	5	2	0	7	2	0	0	2	0	0	0	0	
	71.4%	28.6%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	
	4.8%	4.1%	0.0%	4.5%	6.9%	0.0%	***.*%	4.8%	0.0%	0.0%	***.*%	0.0%	
6-7	3	0	0	3	1	0	0	1	2	0	0	2	
	100.0%	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	2.9%	0.0%	0.0%	1.9%	3.4%	0.0%	***.*%	2.4%	7.7%	0.0%	***.*%	7.1%	
8-9	2	1	0	3	1	0	0	1	1	0	0	1	
	66.7%	33.3%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	1.9%	2.0%	0.0%	1.9%	3.4%	0.0%	***.*%	2.4%	3.8%	0.0%	***.*%	3.6%	
10+	2	2	0	4	1	1	0	2	0	0	0	0	
	50.0%	50.0%	0.0%	100.0%	50.0%	50.0%	0.0%	100.0%	***.*%	***.*%	***.*%	***.*%	
	1.9%	4.1%	0.0%	2.6%	3.4%	7.7%	***.*%	4.8%	0.0%	0.0%	***.*%	0.0%	
ALL	105	49	1	155	29	13	0	42	26	2	0	28	
	67.7%	31.6%	0.6%	100.0%	69.0%	31.0%	0.0%	100.0%	92.9%	7.1%	0.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%	

Table F-1

CHEMISTRY GRADUATES
according to CITIZENSHIP, DEGREE, and ETHNICITY
1985 Starting Salary Survey

Bachelors

CITIZENSHIP	ETHNICITY Black	Hispanic	American Indian	Asian	White	Other Race	ALL	
U.S. Native	35	20	3	30	1,254	5	1,347	- Count
	2.6%	1.5%	0.2%	2.2%	93.1%	0.4%	100.0%	- % of Row
	87.5%	74.1%	100.0%	48.4%	97.7%	71.4%	94.7%	- % of Col
U.S. Naturalized	2	4	0	24	15	1	46	
	4.3%	8.7%	0.0%	52.2%	32.6%	2.2%	100.0%	
	5.0%	14.8%	0.0%	38.7%	1.2%	14.3%	3.2%	
U.S. Permanent visa	1	1	0	4	9	1	16	
	6.3%	6.3%	0.0%	25.0%	56.3%	6.3%	100.0%	
	2.5%	3.7%	0.0%	6.5%	0.7%	14.3%	1.1%	
Other Visa	2	0	0	4	4	0	10	
	20.0%	0.0%	0.0%	40.0%	40.0%	0.0%	100.0%	
	5.0%	0.0%	0.0%	6.5%	0.3%	0.0%	0.7%	
No Response	0	2	0	0	1	0	3	
	0.0%	66.7%	0.0%	0.0%	33.3%	0.0%	100.0%	
	0.0%	7.4%	0.0%	0.0%	0.1%	0.0%	0.2%	
ALL	40	27	3	62	1,283	7	1,422	
	2.8%	1.9%	0.2%	4.4%	90.2%	0.5%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Masters

U.S. Native	6	0	0	3	146	1	156	
	3.8%	0.0%	0.0%	1.9%	93.6%	0.6%	100.0%	
	75.0%	0.0%	***.*%	16.7%	93.6%	100.0%	84.3%	
U.S. Naturalized	0	1	0	2	4	0	7	
	0.0%	14.3%	0.0%	28.6%	57.1%	0.0%	100.0%	
	0.0%	50.0%	***.*%	11.1%	2.6%	0.0%	3.8%	
U.S. Permanent Visa	1	0	0	0	2	0	3	
	33.3%	0.0%	0.0%	0.0%	66.7%	0.0%	100.0%	
	12.5%	0.0%	***.*%	0.0%	1.3%	0.0%	1.6%	
Other Visa	1	1	0	13	4	0	19	
	5.3%	5.3%	0.0%	68.4%	21.1%	0.0%	100.0%	
	12.5%	50.0%	***.*%	72.2%	2.6%	0.0%	10.3%	
No Response	0	0	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	***.*%	0.0%	0.0%	0.0%	0.0%	
ALL	8	2	0	18	156	1	185	
	4.3%	1.1%	0.0%	9.7%	84.3%	0.5%	100.0%	
	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	

Doctorate

U.S. Native	1	2	1	5	193	2	204	
	0.5%	1.0%	0.5%	2.5%	94.6%	1.0%	100.0%	
	50.0%	50.0%	100.0%	17.9%	93.2%	66.7%	83.3%	
U.S. Naturalized	1	1	0	0	3	0	5	
	20.0%	20.0%	0.0%	0.0%	60.0%	0.0%	100.0%	
	50.0%	25.0%	0.0%	0.0%	1.4%	0.0%	2.0%	
U.S. Permanent Visa	0	0	0	3	4	0	7	
	0.0%	0.0%	0.0%	42.9%	57.1%	0.0%	100.0%	
	0.0%	0.0%	0.0%	10.7%	1.9%	0.0%	2.9%	
Other Visa	0	1	0	20	7	1	29	
	0.0%	3.4%	0.0%	69.0%	24.1%	3.4%	100.0%	
	0.0%	25.0%	0.0%	71.4%	3.4%	33.3%	11.8%	
No Response	0	0	0	0	0	0	0	
	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	***.*%	
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
ALL	2	4	1	28	207	3	245	
	0.8%	1.6%	0.4%	11.4%	84.5%	1.2%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Table F-2

CHEMISTRY GRADUATES
according to CITIZENSHIP, DEGREE, and SEX
1985 Starting Salary Survey

CITIZENSHIP	Bachelors SEX Men	Bachelors SEX Women	Bachelors BOTH SEXES	Masters Men	Masters Women	Masters BOTH SEXES	Doctorate Men	Doctorate Women	Doctorate BOTH SEXES
U.S. Native	812	541	1,353	109	48	157	165	39	204 - Count
	60.0%	40.0%	100.0%	69.4%	30.6%	100.0%	80.9%	19.1%	100.0% - % of Row
	94.9%	94.9%	94.9%	85.8%	81.4%	84.4%	83.3%	83.0%	83.3% - % of Col
U.S. Naturalized	26	20	46	4	3	7	4	1	5
	56.5%	43.5%	100.0%	57.1%	42.9%	100.0%	80.0%	20.0%	100.0%
	3.0%	3.5%	3.2%	3.1%	5.1%	3.8%	2.0%	2.1%	2.0%
U.S. Permanent Visa	11	5	16	1	2	3	5	2	7
	68.8%	31.3%	100.0%	33.3%	66.7%	100.0%	71.4%	28.6%	100.0%
	1.3%	0.9%	1.1%	0.8%	3.4%	1.6%	2.5%	4.3%	2.9%
Other Visa	7	4	11	13	6	19	24	5	29
	63.6%	36.4%	100.0%	68.4%	31.6%	100.0%	82.8%	17.2%	100.0%
	0.8%	0.7%	0.8%	10.2%	10.2%	10.2%	12.1%	10.6%	11.8%
ALL	856	570	1,426	127	59	186	198	47	245
	60.0%	40.0%	100.0%	68.3%	31.7%	100.0%	80.8%	19.2%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table F-3

CHEMISTRY GRADUATES
according to MINORITY CLASSIFICATION, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors			Masters			Doctorate		
	SEX								
MINORITY CLASSIFICATION	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES	Men	Women	BOTH SEXES
Black	12	28	40	3	5	8	2	0	2 - Count
	30.0%	70.0%	100.0%	37.5%	62.5%	100.0%	100.0%	0.0%	100.0% - % of Row
	16.0%	43.8%	28.8%	18.8%	38.5%	27.6%	5.3%	0.0%	5.3% - % of Col
Hispanic	16	11	27	2	0	2	4	0	4
	59.3%	40.7%	100.0%	100.0%	0.0%	100.0%	100.0%	0.0%	100.0%
	21.3%	17.2%	19.4%	12.5%	0.0%	6.9%	12.5%	0.0%	10.5%
American Indian	2	1	3	0	0	0	1	0	1
	66.7%	33.3%	100.0%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%
	2.7%	1.6%	2.2%	0.0%	0.0%	0.0%	3.1%	0.0%	2.6%
Asian	39	23	62	10	8	18	23	5	28
	62.9%	37.1%	100.0%	55.6%	44.4%	100.0%	82.1%	17.9%	100.0%
	52.0%	35.9%	44.6%	62.5%	61.5%	62.1%	71.9%	83.3%	73.7%
Other Race	6	1	7	1	0	1	2	1	3
	85.7%	14.3%	100.0%	100.0%	0.0%	100.0%	66.7%	33.3%	100.0%
	8.0%	1.6%	5.0%	6.3%	0.0%	3.4%	6.3%	16.7%	7.9%
ALL	75	64	139	16	13	29	32	6	38
	54.0%	46.0%	100.0%	55.2%	44.8%	100.0%	84.2%	15.8%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table F-4

CHEMICAL ENGINEERING GRADUATES
according to CITIZENSHIP, DEGREE, and ETHNICITY
1985 Starting Salary Survey

Bachelors

CITIZENSHIP	ETHNICITY Black	Hispanic	American Indian	Asian	White	Other Race	No Response	ALL	
U.S. Native	27	13	1	24	1,213	6	10	1,294	- Count
	2.1%	1.0%	0.1%	1.9%	93.7%	0.5%	0.8%	100.0%	- % of Row
	90.0%	68.4%	100.0%	41.4%	98.5%	100.0%	100.0%	95.5%	- % of Col
U.S. Naturalized	2	2	0	21	10	0	0	35	
	5.7%	5.7%	0.0%	60.0%	28.6%	0.0%	0.0%	100.0%	
	6.7%	10.5%	0.0%	36.2%	0.8%	0.0%	0.0%	2.6%	
U.S. Permanent Visa	1	1	0	11	3	0	0	16	
	6.3%	6.3%	0.0%	68.8%	18.8%	0.0%	0.0%	100.0%	
	3.3%	5.3%	0.0%	19.0%	0.2%	0.0%	0.0%	1.2%	
Other Visa	0	3	0	2	5	0	0	10	
	0.0%	30.0%	0.0%	20.0%	50.0%	0.0%	0.0%	100.0%	
	0.0%	15.8%	0.0%	3.4%	0.4%	0.0%	0.0%	0.7%	
ALL	30	19	1	58	1,231	6	10	1,355	
	2.2%	1.4%	0.1%	4.3%	90.8%	0.4%	0.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

Masters

U.S. Native	3	0	0	4	134	1	2	144
	2.1%	0.0%	0.0%	2.8%	93.1%	0.7%	1.4%	100.0%
	100.0%	***.*%	0.0%	13.3%	94.4%	50.0%	100.0%	80.0%
U.S. Naturalized	0	0	0	5	2	0	0	7
	0.0%	0.0%	0.0%	71.4%	28.6%	0.0%	0.0%	100.0%
	0.0%	***.*%	0.0%	16.7%	1.4%	0.0%	0.0%	3.9%
U.S. Permanent Visa	0	0	0	5	1	0	0	6
	0.0%	0.0%	0.0%	83.3%	16.7%	0.0%	0.0%	100.0%
	0.0%	***.*%	0.0%	16.7%	0.7%	0.0%	0.0%	3.3%
Other Visa	0	0	1	16	5	1	0	23
	0.0%	0.0%	4.3%	69.6%	21.7%	4.3%	0.0%	100.0%
	0.0%	***.*%	100.0%	53.3%	3.5%	50.0%	0.0%	12.8%
ALL	3	0	1	30	142	2	2	180
	1.7%	0.0%	0.6%	16.7%	78.9%	1.1%	1.1%	100.0%
	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Doctorate

U.S. Native	1	1	0	2	51	0	1	56
	1.8%	1.8%	0.0%	3.6%	91.1%	0.0%	1.8%	100.0%
	50.0%	100.0%	***.*%	7.1%	87.9%	0.0%	100.0%	60.9%
U.S. Naturalized	1	0	0	4	3	0	0	8
	12.5%	0.0%	0.0%	50.0%	37.5%	0.0%	0.0%	100.0%
	50.0%	0.0%	***.*%	14.3%	5.2%	0.0%	0.0%	8.7%
U.S. Permanent Visa	0	0	0	6	1	2	0	9
	0.0%	0.0%	0.0%	66.7%	11.1%	22.2%	0.0%	100.0%
	0.0%	0.0%	***.*%	21.4%	1.7%	100.0%	0.0%	9.8%
Other Visa	0	0	0	16	3	0	0	19
	0.0%	0.0%	0.0%	84.2%	15.8%	0.0%	0.0%	100.0%
	0.0%	0.0%	***.*%	57.1%	5.2%	0.0%	0.0%	20.7%
ALL	2	1	0	28	58	2	1	92
	2.2%	1.1%	0.0%	30.4%	63.0%	2.2%	1.1%	100.0%
	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	100.0%	100.0%

Table F-5

CHEMICAL ENGINEERING GRADUATES
according to CITIZENSHIP, DEGREE, and SEX
1985 Starting Salary Survey

	Bachelors				Masters				Doctorate				
	SEX												
CITIZENSHIP	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	Men	Women	No Response	BOTH SEXES	
U.S. Native	936	354	4	1,294	109	35	0	144	49	7	0	56	- Count
	72.3%	27.4%	0.3%	100.0%	75.7%	24.3%	0.0%	100.0%	87.5%	12.5%	0.0%	100.0%	- % of Row
	95.7%	94.9%	100.0%	95.5%	77.9%	87.5%	***.*%	80.0%	61.3%	58.3%	***.*%	60.9%	- % of Col
U.S. Naturalized	19	16	0	35	7	0	0	7	3	5	0	8	
	54.3%	45.7%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	37.5%	62.5%	0.0%	100.0%	
	1.9%	4.3%	0.0%	2.6%	5.0%	0.0%	***.*%	3.9%	3.8%	41.7%	***.*%	8.7%	
U.S. Permanent Visa	13	3	0	16	5	1	0	6	9	0	0	9	
	81.3%	18.8%	0.0%	100.0%	83.3%	16.7%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	1.3%	0.8%	0.0%	1.2%	3.6%	2.5%	***.*%	3.3%	11.3%	0.0%	***.*%	9.8%	
Other Visa	10	0	0	10	19	4	0	23	19	0	0	19	
	100.0%	0.0%	0.0%	100.0%	82.6%	17.4%	0.0%	100.0%	100.0%	0.0%	0.0%	100.0%	
	1.0%	0.0%	0.0%	0.7%	13.6%	10.0%	***.*%	12.8%	23.8%	0.0%	***.*%	20.7%	
ALL	978	373	4	1,355	140	40	0	180	80	12	0	92	
	72.2%	27.5%	0.3%	100.0%	77.8%	22.2%	0.0%	100.0%	87.0%	13.0%	0.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	***.*%	100.0%	100.0%	100.0%	***.*%	100.0%	

Table F-6

CHEMICAL ENGINEERING GRADUATES
according to MINORITY CLASSIFICATION, DEGREE, and SEX
1985 Starting Salary Survey

MINORITY CLASSIFICATION	Bachelors SEX Men	Bachelors SEX Women	Bachelors BOTH SEXES	Masters Men	Masters Women	Masters BOTH SEXES	Doctorate Men	Doctorate Women	Doctorate BOTH SEXES	
Black	17	13	30	2	1	3	1	1	2	- Count
	56.7%	43.3%	100.0%	66.7%	33.3%	100.0%	50.0%	50.0%	100.0%	- % of Row
	23.3%	31.7%	26.3%	6.9%	14.3%	8.3%	3.6%	20.0%	6.1%	- % of Col
Hispanic	15	4	19	0	0	0	1	0	1	
	78.9%	21.1%	100.0%	***.*%	***.*%	***.*%	100.0%	0.0%	100.0%	
	20.5%	9.8%	16.7%	0.0%	0.0%	0.0%	3.6%	0.0%	3.0%	
American Indian	0	1	1	0	1	1	0	0	0	
	0.0%	100.0%	100.0%	0.0%	100.0%	100.0%	***.*%	***.*%	***.*%	
	0.0%	2.4%	0.9%	0.0%	14.3%	2.8%	0.0%	0.0%	0.0%	
Asian	36	22	58	26	4	30	24	4	28	
	62.1%	37.9%	100.0%	86.7%	13.3%	100.0%	85.7%	14.3%	100.0%	
	49.3%	53.7%	50.9%	89.7%	57.1%	83.3%	85.7%	80.0%	84.8%	
Other Race	5	1	6	1	1	2	2	0	2	
	83.3%	16.7%	100.0%	50.0%	50.0%	100.0%	100.0%	0.0%	100.0%	
	6.8%	2.4%	5.3%	3.4%	14.3%	5.6%	7.1%	0.0%	6.1%	
ALL	73	41	114	29	7	36	28	5	33	
	64.0%	36.0%	100.0%	80.6%	19.4%	100.0%	84.8%	15.2%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

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Summer 1985

Dear Colleague:

The American Chemical Society has gathered information for many years about starting salaries in chemistry and chemical engineering. This information has gained a reputation for reliability and usefulness.

Every year, the Society makes a mail survey of both ACS member and nonmember graduates. The data collected from these surveys have been very useful to chemists and chemical engineers, particularly as they start their careers. We believe the publication of such data has had a beneficial effect on salary levels. The published survey results also include information on the employment status of recent graduates.

We would appreciate it very much if you would participate in this year's survey. It would clearly be a service to your colleagues and profession. Would you please take a few minutes now to fill out the enclosed questionnaire. No personal identification--either on the questionnaire or return envelope--is required or requested.

Upon completing as many items in the questionnaire as possible, please return it promptly to us, whether or not you have already accepted employment. For your convenience, we have enclosed a self-addressed, postage-paid envelope.

Preliminary results of this survey will be published this fall in CHEMICAL AND ENGINEERING NEWS' Career Issue. Later in the year, the Society will publish a complete report.

Thank you for your assistance with this survey. We extend our best wishes for every success in your professional pursuits.

Sincerely,

John K Crum

John K Crum

Enclosures

AMERICAN CHEMICAL SOCIETY

Survey of Starting Salaries and Employment Status of 1985 Chemistry and Chemical Engineering Graduates

1. Highest degree earned (Check one):

- Bachelor's ☐ 1
- Master's ☐ 2
- Doctorate ☐ 3

2. Field of highest degree (Check one):

- Chemical engineering ☐ 01
- Biochemistry ☐ 02
- General chemistry ☐ 03
- Analytical chemistry ☐ 04
- Inorganic chemistry ☐ 05
- Organic chemistry ☐ 06
- Polymer chemistry ☐ 07
- Pharmaceutical chemistry ☐ 08
- Medicinal/clinical chemistry ☐ 09
- Theoretical chemistry ☐ 10
- Environmental chemistry ☐ 11
- Agricultural/food chemistry ☐ 12
- Physical chemistry ☐ 13
- Other chemical science ☐ 14
- Non-chemistry ☐ 15

3. Please describe the school that granted your degree:

- Public ☐ 1
- Private ☐ 2

4. Number of students:

- Less than 1,500 ☐ 1
- 1,500 to 4,999 ☐ 2
- 5,000 to 9,999 ☐ 3
- 10,000 to 20,000 ☐ 4
- Over 20,000 ☐ 5

5. The highest degree offered by your department is:

- BS ☐ 1
- MS ☐ 2
- PhD ☐ 3

6. Do you plan further advanced studies in the fall of 1985? (Check one below):

- No ☐ 1 PLEASE SKIP TO QUESTION 8.
- Yes, full time ☐ 2
- Yes, part-time ☐ 3

7. Field of further studies (Check one):

- Chemistry ☐ 01
- Other physical science or math ☐ 02
- Chemical engineering ☐ 03
- Other engineering ☐ 04
- Biochemistry ☐ 05
- Life science ☐ 06
- Medicine ☐ 07
- Dentistry ☐ 08
- Pharmacy, pharmacology ☐ 09
- Business management ☐ 10
- Education ☐ 11
- Law ☐ 12
- Social science or humanities ☐ 13
- Other ☐ 14

8. Age at last birthday:

_____ years old

9. Sex:

- Male ☐ 1
- Female ☐ 2

10. Citizenship or visa status (Check one):

- U.S. native ☐ 1
- U.S. naturalized ☐ 2
- U.S. permanent resident visa ☐ 3
- Other visa ☐ 4

11. Racial or ethnic group:

- Black (not of Hispanic origin) ☐ 1
- Hispanic ☐ 2
- American Indian or Alaskan Native ☐ 3
- Asian or Pacific Islander ☐ 4
- White ☐ 5
- Other race or ethnic group ☐ 6

12. Current employment status (Check one):

Not employed, employed part-time or employed for the summer only:

- and seeking full-time employment ☐ 1
- and not seeking full-time employment ☐ 2

IF YOU CHECKED NUMBER 1 OR 2, PLEASE STOP HERE AND RETURN THE QUESTIONNAIRE IN THE ENVELOPE PROVIDED.

Accepted or continuing full-time employment (excluding summer-only employment):

- in a field of chemistry or chemical engineering ☐ 3
- in a field other than chemistry or chemical engineering ☐ 4

Accepted a graduate assistantship or fellowship or a postdoctoral fellowship ☐ 5

13. Your annual salary:

$_____ per year

14. Check the one work function that best describes your job:

- Teaching ☐ 01
- Management or administration ☐ 02
- Basic research ☐ 03
- Applied research, development, design ☐ 04
- Production, quality control ☐ 05
- Forensic analysis, other laboratory analysis ☐ 06
- Marketing, sales, purchasing, technical service, economic evaluation ☐ 07
- Writing, abstracting, information services, software development ☐ 08
- Consulting ☐ 09
- Other ☐ 10

IF YOU HOLD AN ASSISTANTSHIP OR FELLOWSHIP, PLEASE STOP HERE AND RETURN THE QUESTIONNAIRE IN THE ENVELOPE PROVIDED.

15. How many firm offers of employment did you receive in a field of chemistry or chemical engineering?

Specify number _____

16. Professional or technical work experience prior to graduation (Check one):

- Less than 12 months (or none) ☐ 1
- 12 to 36 months ☐ 2
- More than 36 months ☐ 3

17. How long have your been working for your current employer?

- 12 months or less ☐ 1
- More than 12 months ☐ 2

18. Check the one chemistry specialty most closely related to your job:

- Chemical engineering ☐ 1
- Biochemistry ☐ 2
- Analytical chemistry ☐ 3
- Inorganic chemistry ☐ 4
- Organic chemistry ☐ 5
- Polymer chemistry ☐ 6
- Non-chemical ☐ 7

19. Check the one category which best describes your employer:

Manufacturing:

- Chemicals ☐ 01
- Coatings ☐ 02
- Food ☐ 03
- Metals, minerals ☐ 04
- Paper ☐ 05
- Petroleum ☐ 06
- Pharmaceutical, personal care ☐ 07
- Rubber ☐ 08
- Other manufacturing ☐ 09

Non-manufacturing (e.g., mining, utilities, construction, etc.) ☐ 10

- University granting a doctorate in chemical science ☐ 11
- Other college or university ☐ 12
- High school or other school ☐ 13
- Federal government (civilians only) ☐ 14
- Military ☐ 15
- State and local government ☐ 16
- Hospital or independent laboratory ☐ 17
- Other non-profit organization or research institute ☐ 18
- Other ☐ 19

20. Employers' approximate number of employees (total for the whole organization):

- Less than 500 ☐ 1
- 500 to 2,499 ☐ 2
- 2,500 to 9,999 ☐ 3
- 10,000 to 24,999 ☐ 4
- Over 25,000 ☐ 5

21. Geographic location of employment:

State: _____

Please return the questionnaire within 7 days to the American Chemical Society
Room 202, 1155 16th Street, N.W., Washington, D.C. 20036

Thank you.

Statistical Services
American Chemical Society
Washington, D.C.

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